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108
MOUs

Ranked **TOP**
by Competition Success Review

288
patents

Department of **Science & Humanities** Presents

4th Online/Offline Mega International conference on

"Continuity, Consistency and Innovation in Applied Sciences and Humanities" on 18th & 19th August 2023

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Department of Science & Humanities

4th Online/Offline Mega International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities” on 18th & 19th August, 2023 (ICCIASH-23)

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Sri. M. LAXMAN REDDY
CHAIRMAN



MESSAGE

I am extremely pleased to know that the Department of Science & Humanities of SMEC is organizing 4th Online/Offline Mega International Conference on “**Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2023)**” on 18th&19th August, 2023. I understand that the large number of researchers has submitted their research papers for presentation in the conference and for publication. The response to this conference from all over India and Foreign countries is most encouraging. I am sure all the participants will be benefitted by their interaction with their fellow researchers and engineers which will help for their research work and subsequently to the society at large.

I wish the conference meets its objective and confident that it will be a grand success.

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M. Laxman Reddy

M. LAXMANREDDY
Chairman



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Sri. G. CHANDRASEKHAR YADAV
EXECUTIVE DIRECTOR



MESSAGE

I am pleased to state that the Department of Science & Humanities of SMEC is organizing 4th Online/Offline Mega International Conference on “**Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2023)**” on 18th&19th August, 2023. For strengthening the “MAKE IN INDIA” concept many innovations need to be translated into workable product. Concept to commissioning is along route. The academicians can play a major role in bringing out new products through innovations.

I am delighted to know that there are large number of researchers have submitted the papers on Applied Science & Humanities. I wish all the best to the participants of the conference additional insight to their subjects of interest.

I wish the organizers of the conference to have great success.

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G. CHANDRASEKHAR YADAV
Executive Director



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Dr. P. SANTOSH KUMAR PATRA
Group Director



I am delighted to be the Patron & Program Chair for the **4th Online/Offline Mega International Conference on “Continuity, Consistency and Innovation in Applied Sciences and Humanities (ICCIASH-2023)”** organized by the Department Science & Humanities on 18th&19th August, 2023. I have strong desire that the conference to unfold new domains of research among the Applied Sciences and Humanities and will boost the knowledge level of many participating budding scholars throughout the world by opening a plethora of future developments in the field of Applied Sciences and Humanities.

The Conference aims to bring different ideologies under one roof and provide opportunities to exchange ideas, to establish research relations and to find many more global partners for future collaboration. About 330+ research papers have been submitted to this conference, this itself is a great achievement and I wish the conference a grand success.

I appreciate the faculties, coordinators and Department Head of Science and Humanities for their continuous untiring contribution in making the conference a reality.

(Dr. P. Santosh Kumar Patra)
Group Director

CONVENER

Dr. RANADHEER REDDY DONTI
Professor & Head, Department of FME



The 4th Online/Offline Mega International Conference on “**Continuity, Consistency and Innovation in Applied Sciences and Humanities**” (ICCIASH-2023) has concluded its work successfully on 18th & 19th August, 2023 in St. Martin’s Engineering College (SMEC), Hyderabad, India.

The ICCIASH-2023 was organized online by the Department of Science and Humanities, SMEC, and the objective of this conference was to bring together experts from academic institutions, industries, research organisations for sharing of knowledge and experience in the recent trends and advances in Applied Sciences and Humanities.

The conference programme featured a wide variety of invited and contributed lectures from national and international speakers with expertise in their respective fields as well as oral and poster sessions. The ICCIASH has become one of the most extensive, spectacular international events hosted by SMEC for its high-level quality and the large size of participation.

Well- known international and national invited speakers addressed the audience, shared knowledge, and rich experiences on recent advances in Applied Sciences and Humanities in their respective universities and countries. Hundreds of attendees, paper presenters, and students have benefited in many ways from this conference. Nearly 330+ theoretical and research papers were presented by authors from around the world. High quality papers will also be published in reputed UGC recognised journals.

The huge success of the conference was achieved because of the able support of the management and the Principal of SMEC. The entire team of the organisers would like to express their gratitude to the higher authorities of SMEC, and last but not the least, the participants who shared their immense knowledge using the platform of this conference.

Finally, we assure you that we are dedicated to come up with many more such programmes so that the process of sharing knowledge continues for the betterment of the teaching-learning community and the society at large.



Dr. RANADHEER REDDY DONTI
Professor & Head, Department of FME

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A Study on Promotional Factors Impacting the Brand Expectation in regard to Television Purchase

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Abstract: The present research is related to consumer behaviour patterns of Television buyers. In case of durable goods like television, the buyers tend to purchase the products with a brand perception, they already have. This perception with regard to specific brand of the product category is commonly referred to as brand expectation. Customers then buy the product and use the product, after purchasing. On usage, they tend to form actual perceptions about the brand. It has been observed, through literature survey, that customers brand expectation has been influenced by promotion related factors, along with other factors related to products, distribution, pricing etc. In the present research, we have made empirical research using statistical analysis on the promotional attributes and attempts have been made to identify promotional related factors, which have strong impacts on brand expectation of television buyers.

Keywords: *Promotional Factor, Brand Expectation, Expectancy Confirmation, Product Performance, Buyers' Expectation, Television Buyers.*

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On Hopf Lightlike Hypersurfaces of Indefinite Kenmotsu Manifold

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Abstract:

The object of present paper is to study the properties of Hopf lightlike hypersurfaces of indefinite Kenmotsu manifold. Two monographs by Duggal-Jin and Duggal- Sahin contain a collection of many interesting results on lightlike hypersurfaces, and have, further, motivated other scholars to take an active role in the study of lightlike geometry. The object of present paper is to study the properties of Hopf lightlike hypersurfaces of indefinite Kenmotsu manifold.

Keywords: *Hopf lightlike hypersurfaces, Kenmotsu manifold* **2010 AMS Classification Number:** 53C15, 53C25, 53C50,

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IMPLEMENTING THE TWO PARAMETER WEIBULL DISTRIBUTION ON THE PROGRAMMING PLATFORMS OF MATLAB AND SIMULINK - THE FUZZY INVENTORY SIMULATION DETERIORATES DEMAND AND SHORTAGES ON GLOBAL CRITERIA METHOD

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ABSTRACT

A simulation is an enduring a representation regarding the manner in which an equipment or analyse might operate in real-world circumstances. Simulations performed have to employ precedents; the visualisation reflects the fundamental properties of the selected technique or procedure, and the simulated outcome demonstrates the model's evolution through their valuable time. The fuzzifier transfers a real, crisp input to a fuzzy function. A continuous spectrum of probabilities is the Weibull distribution. It simulates a variety of random variables, primarily those with the characteristics of a time to failure or a time between events. The capacity to examine failure trends and offer failure prediction based on well-known sample data sets is the main benefit of Weibull analysis. The Weibull distribution in specific perks from the versatility and capacity to be employed effectively with comparatively small data sets. It is anticipated that the deterioration will follow a two parameter Weibull distribution. A time-dependent demand and shortages caused by deterioration and demand are incorporated into the inventory model. Decision variables have been used to investigate the manner in which modifications in parameter values affect the ideal inventory policy. A family of curves with two parameters is the Weibull distribution. It was presented as a suitable analytical tool for simulating material breaking strength. Modelling for dependability and lifetime are also currently used.

KEYWORDS: *Fuzzification, Shortages, Demand, Weibull distribution, Two parameter, Numerical data, Matplot lib visual, Matlab & Simulink.*

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NEUTROSOPHIC INVENTORY MODEL WITH QUICK RETURN FOR DAMAGED MATERIALS AND PYTHON-ANALYSIS

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Abstract

The present study explores two distinct kinds of neutrosophic numbers to solve a neutrosophic control of inventory issue with an immediate return for defective items: triangular neutrosophic values and trapezoidal neutrosophic values. The triangular and trapezoidal neutrosophic figures represent the neutrosophic perfect rate(NPR), neutrosophic demand rates(NDR), and neutrosophic cost of purchase(NCP), respectively. To determine the ideal order quantity (IOQ) in neutrosophic terms, the median rule is applied. The idea for a model is presented with an example of Python analysis.

Keywords: *Demand, Inventory Model, Fuzzy set, Neutrosophic, Defuzzification, Python.*

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A Review on Liver Segmentation Study using Computed Tomography Images

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ABSTRACT.

Computer Aided Detection and Diagnosis has been evolved as a boon for wellbeing of mankind. Even after the technological development and development in medical field, Cancer remains the second largest cause of death in the world. Liver cancer is one of the most common causes of cancer death. This paper presents a systematic and complete study required for a computer researcher especially for liver segmentation from Computed Tomography (CT) scan images to detect liver cancer. The study consist a systematic survey of different methods used in liver segmentation from CT scan images along with the overview of standard datasets used historically.

KEYWORDS: *Liver, Segmentation , Survey , Computed Tomography (CT) , Machine Learning*

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Review on Context-Aware Privacy as a concern in Cloud Environment and IoT

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ABSTRACT

With the rapid advancement of cloud computing and the Internet of Things (IoT), privacy concerns have become a critical issue. The integration of cloud and IoT technologies has enabled seamless data sharing and analysis, but it has also raised significant privacy challenges. Context-aware privacy solutions have emerged as a promising approach to address these challenges. This review paper provides a comprehensive analysis of context-aware privacy techniques in the context of cloud and IoT, examining their key concepts, challenges, and potential applications. Furthermore, it discusses the current state of research, identifies open issues, and proposes future directions for context-aware privacy in cloud and IoT environments.

KEYWORDS: *Context-Aware Privacy, IoT, Cloud Computing, Privacy-Concerns, Solutions*

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SHADOW OF OPPRESSION IN THE SELECT NOVELS OF BAPSI SIDHWA

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Abstract:

This study aims to investigate how Bapsi Sidhwa handles the feminist theme in *The Pakistani Bride*. In a culture where men predominate, women are oppressed, subjugated, and exploited. This study intends to look into the gender biases present in Pakistan's tribal patriarchal society. In India and around the world, violence against women is a widespread practise, but we chose to pay particular attention to it in order to present ourselves as a civilised culture. Women are oppressed by a male-dominated society, exploited for sexual pleasure, slaughtered for honour, and exchanged for political power, but they never have the same opportunities to succeed as opposite gender.

Key Words: *Oppression, patriarchal society, marriage, Male hegemony, victim, struggle.*

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An Evaluation of the Godavari River's water quality index in Nashik, Maharashtra.

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Abstract

The most important and basic resource for humans is water. For all developing nations nowadays, water resource management has emerged as a crucial concern. Rapid population increase and the repetitive activities that occur along rivers represent a serious threat to the river system. Diverse human activities, such as the clearing of vegetation, industrial activity, encroachment, residential, and religious activities, provide ongoing strain on the quantity and quality of water. All of these actions caused the water quality to decline. The majority of these issues are located in and around urban regions. The water quality of the Godavari River in Nashik City has been thoroughly studied while taking this viewpoint into consideration. In the first week of June 2021, water samples were collected from eight sampling locations. The standard approach has been used to analyse physico-chemical parameters. The study is being undertaken to analyse the water quality state of the Godavari river in terms of water quality index (WQI), and the Karl Pearson correlation matrix has been constructed for assessing relationships between the water quality indicators. The research area's upper stream had a good water quality status overall (WQI 71.12), but as it entered the urban area, the water quality began to decline (WQI 22.30). The field observations show that a variety of human activities, particularly domestic, industrial, and religious waste, are to blame for the worsening water quality. The primary goal of the research is to analyse the water quality index (WQI), along with corrective actions to lessen future degradation and its effects. With the help of this research we make action plan about improving water quality of Godavari river.

Keywords: *Water quality Index, Upper Godavari river, Karl Pearson correlation, water quality, action plan.on Godavari river.*

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IDENTIFYING SOFTWARE BUGS USING SUPERVISED MACHINE LEARNING TECHNIQUES

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ABSTRACT

In this system, machine learning method is proposed to identify software bugs. A software bug is an error, flaw or fault in a computer program or system that causes an incorrect or unexpected result. The reason for these bugs arise from mistakes and errors made in either a program's design or its source code. A few are caused by compilers producing incorrect code. A program that contains many bugs will make severe implications in the functionality of the machine. It is necessary to design a method to identify these kind of bugs in the system. A machine learning-based method supervised machine learning technique (SMLT) to classify the software bugs with dataset by capturing several information's like, variable identification, uni-variate analysis, bi-variate and multi-variate analysis, missing value treatments and analyze the data validation, data cleaning/preparing and data visualization will be done on the entire given dataset. In today's scenario, it is very important to identify the bug in the development phase of software. Predicting the bugs earlier, will leave a reliable, efficient and a quality software. Producing cost-effective software without having bugs is a challenging task. In this system different machine learning algorithms are used for the prediction of bugs with more accuracy with datasets.

Keywords: Supervised machine learning techniques, logistic regression Techniques, Random forest Algorithm, K-nearest Neighbour Algorithm

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A DISTRIBUTED AND OPTIMIZED HOUSE PRICE PREDICTION SYSTEM USING XGBOOST

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ABSTRACT

Prediction of house prices often involves various external factors including population, location, area and more. One of the most vital parameter involving house price prediction is House Price Index (HPI). The volatility in house prices is measured using the House Price Index. Over the years, there have been a lot of traditional approaches in machine learning to predict property prices accurately. The disadvantage with these models is that they fail to factor in the complex or vulnerable models during prediction. Hence, to apply house price prediction to various scenarios, our project culminates in both traditional and complex machine learning techniques to find the difference between the different models. The proposed system uses a limited dataset which undergoes data preprocessing followed by the different feature extraction methods. Here, our system proposes the comparison of Support Vector Machine, decision tree techniques and XGBoost to predict the house price. Finally, we compare all algorithms and provide an optimistic result in house price prediction.

Keywords: *Support vector machine, dendritic neuron model XGBoost Library, House Price Index.*

*Corresponding Author: Dr. V. Anjana Devi

Paper ID: ICCIASH-2023/417

Enhancing the ancient Tamil inscription character recognition system using a CNN-based OCR engine

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ABSTRACT

This project seeks to create a software application that can analyze ancient Tamil inscriptions through optical character recognition (OCR), aiding archaeologists in understanding historical events in prehistoric Sri Lanka. The OCR module incorporates artificial neural network (ANN) and convolutional neural network (CNN) technologies. Both OCR methods were tested using training data, preprocessed test data, and actual photos of inscriptions to assess their recognition accuracy. After evaluation, the CNN approach was selected as the preferred OCR solution. However, the primary challenge faced in this research is the limited availability of data, which can have a notable impact on the accuracy of the OCR system.

Keywords: *Optical Character Recognition (OCR), Artificial Neural Network (ANN), Convolutional Neural Network (CNN), Train Data, Test Data*

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Paper ID: ICCIASH-2023/220

History of Women's writing in India:

From slavery to Self-Assertion

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ABSTRACT.

Literature in any form repels stories said and unsaid, be it a novel, a short story, a memoir, a fable, an autobiography or poetry. There is a perennial thirst to go in quest of the unfelt freedom, to quench this eternal thirst, writers have ink-tipped the arrows of knowledge attempting to reach the unknown realms of human emotions. Human experience is always different from other. It was relentless effort of writers, across the world to share multi-dimensional issues undaunted that have changed the psychological and emotional issues sprouting in the mind of readers in their own felt way. The society has been in perennial transition, literature has been equally monitoring the trends set with the changing times. Women, who were otherwise ill-treated, subjugated and oppressed and their dreams to survive on par with men were chagrined. Women started penning their stories. This research paper deals with what prompted women to use their pens so powerfully that Feminism has been established.

Key words: *literature, multi-dimensional, subjugation, self-awareness.*

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Developing English Speaking Skills using ICT in Urdu Medium Classroom: An Empirical Study

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Abstract

As indicated by research, using modern technology in education is essential in the digital world. Due to the effective use of information and communication technology (ICT) in teaching and learning, teachers and students have more chances to work together. However, several challenges could discourage teachers from integrating supplemental materials and using ICT in the classroom. This study aims to gain a better understanding of how teachers see the barriers and challenges that prevent them from incorporating ICT in the process of language teaching and learning. Therefore, a validated questionnaire was presented to 10 high school English teachers who were selected from the Kadapa district of Andhra Pradesh. Stratified random sampling was used for the study. The findings demonstrated that despite teachers' strong desire to include ICT in the process of English language teaching and learning, they encountered several challenges. The shortage of technical help in schools and restricted access to the Internet and ICT were believed to be the major barriers limiting instructors from ICT Implementation into the curriculum. The findings also showed that a significant obstacle limiting teachers from using ICT in the classroom was a shortage of class time.

Keywords: *English, Language, Information and communications technology, teachers' acquaintance, opinions, barriers, solutions*

*Corresponding Author: S A Riyaz Basha

THE PURSUIT OF SOCIAL EMANCIPATION IN BHABANI

BHATTACHARYA'S *HE WHO RIDES A TIGER*

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ABSTRACT:

Bhabani Bhattacharya, a distinguished Indian writer of Bengal descent, ascended as a formidable figure in the realm of Indian English literature. Renowned for his insightful portrayals of contemporary Indian society, Bhattacharya's works stood as an embodiment of the ideals propagated by luminaries like Rabindranath Tagore and Mahatma Gandhi. With a remarkable repertoire of six novels to his credit, namely *Music for Mohini*, *A Goddess Named Gold*, *He Who Rides a Tiger*, *Shadow from Ladakh*, *A Dream in Hawaii*, and *So Many Hungers*, Bhattacharya masterfully captured the intricacies of the Indian social fabric within the pages of his literary creations. This scholarly article explores the central theme of Social Emancipation within the literary tapestry of Bhabani Bhattacharya's magnum opus, *He Who Rides a Tiger*.

Keywords: *Emancipation, society, individuality, holiness and tradition.*

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Paper ID: ICCIASH-2023/861

ADVANCED STUDY OF MODIFIED INTERNAL COMBUSTION ENGINE TO RUN WITH 88% OF ETHANOL

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ABSTRACT: One of the major challenges of the automotive industry is to reduce the greenhouse gases, especially CO₂ emissions. Many research programs are currently being led on this subject, aiming at reducing the fuel consumption of vehicles but also at optimizing the fuel composition. The paper discusses about the effect of ethanol-blends as a biofuel in spark ignition engine. The paper reviews the properties of ethanol fuel and the effect of various ethanol blends. Based on the performance of the engine the merits as well as the demerits of using ethanol as a fuel in a spark ignition engine is also discussed. In this paper, here we use 88% of anhydrous ethanol and 12% gasoline or petrol which makes working of engine more effective. Though, ethanol corrodes the engine, we are using Biobor EB as a fuel stabilizer to avoid corrosion of engine. The main advantages and drawbacks of the use of such a fuel are then summarized. Finally, an example of the gains that can be obtained by an optimization of the engine using pure ethanol is presented. A small supercharged engine has already been modified to benefit from the potential of ethanol, especially in terms of knock resistance. The performances of this engine have been compared with those of the Initial gasoline engine, showing that important gains can be obtained paper discusses about the effect of ethanol blends as a biofuel in spark ignition engine. The paper reviews the properties of ethanol fuel and the effect of various ethanol blends. Based on the performance of the engine the merits as well as the demerits of using ethanol as a fuel in a spark ignition engine is also discussed. In this paper, here we use 88% of anhydrous ethanol and 12% gasoline or petrol which makes working of engine more effective. Though, ethanol corrodes the engine, we are using Biobor EB as a fuel stabilizer to avoid corrosion of engine. The main advantages and drawbacks of the use of such a fuel are then summarized. Finally, an example of the gains that can be obtained by an optimization of the engine using pure ethanol is presented. A small supercharged engine has already been modified to benefit from the potential of ethanol, especially in terms of knock resistance. The performances of this engine have been compared with those of the initial gasoline engine, showing that important gains can be obtained with such a technology.

Keywords: CO₂ emission-Ethanol engine-Spark ignition engine Biobor(EB)

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Paper ID: ICCIASH-2023/422

BLOCKCHAIN BASED ELECTRONIC HEALTH RECORD (EHR) MANAGEMENT USING SMART CONTRACT

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Abstract: An Electronic Health Record (EHR) is a digital version of a patient's paper chart. EHRs are real-time, patient-centered records that make information available instantly and securely to authorized users. Patient's medical records or EHRs are very important, private and crucial details of a patient which need to be maintained, and stored securely. In this paper we are presenting blockchain technology to store patients' records on distributed peers using IPFS as blockchain technologies. Blockchain is a data structure in which the consequent data is appended to the existing data and is maintained by all the participants of the network. The health industries are currently focusing on blockchain technology to maintain the health data in a more secure, confidential, and decentralized way, as in the current record management system they are unable to manage privacy and integrity. Blockchain technology has the potential to transform health care by placing the patient at the center of the health system and increasing the security, privacy, and interoperability of health data. We have implemented a framework allowing doctors to view medical records of any patient with the patient's consent using smart contracts on Ganache Ethereum Environment. Patients' medical records are uploaded, encrypted using keccak-256 hashing algorithm and stored in a decentralized storage system using IPFS allowing faster access to medical records using content-addressing to uniquely identify each file in a global namespace connecting IPFS hosts. All users are identified using their public and private keys as authentication and accounts are managed using MetaMask wallet which provides an easier way to manage user funds and transactions. Implemented framework provides a secure, efficient, easy to use system to maintain patients Electronic Health Records using Blockchain technology.

Keywords: *Blockchain, IPFS, Decentralized, Electronic Health Record, Encryption*

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Paper ID: ICCIASH-2023/854

Embracing the Threads of Change: A Qualitative study on Weavers Perception towards Technology Integration in Handloom

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Abstract

The Handloom weaving industry stands at the crossroads of tradition and innovation, with the integration of technology potentially reshaping its landscape. This study explores the perception of weavers towards the integration of technology in the production of Handloom. We collected data through survey from weavers in different clusters of Thiruvananthapuram district. Through thematic analysis, we uncovered nuanced insights into weavers' attitude towards technology integration and how the perceived benefits and perceived challenges of weavers affect the perceived satisfaction. Our finding reveals a spectrum of perspectives ranging from enthusiasm for technological advancements to reservations about preserving artisanal traditions.

Keywords: *Technology Integration, perceived challenges, perceived benefits, perceived satisfaction*

*Corresponding author: Rejitha V K

PHISHING WEBSITE DETECTION USING OPTIMIZED FEATURES

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Abstract- In general, usage of websites is the most common thing, it may be for e-commerce purposes or entertainment. Users are concerned whether it is fraudulent or legit. Conventionally, a website can be detected whether it is harmful or not, by the browser protection service, if it is redirecting to unusual or malicious sites, such sites are marked as harmful with a symbol before the URL. To detect such sites machine learning models are trained using different algorithms to determine the phishing site based on URL feature extraction. Based on different features of the URL, such as Domain length, character length and many more, the models are trained at a time. The results are stored and compared to find the most accurate one. The most accurate result is displayed using the PSO random forest algorithm. This paper deals with machine learning and PSO technology for detection of phishing URLs by extracting and analysing various features of legitimate and phishing URLs. In this paper, phishing website detection using particle swarm optimization is proposed to enhance the detection of phishing websites. Random forest PSO algorithm is used to detect phishing websites. Initially it considered 16 URL based features for implementation and were reduced to 13 URL based features after optimization. The precision, recall and F1 score of all thirteen features on the dataset is 0.94, 0.75, and 0.84. The weighted average precision, recall and F1 score of the proposed method is 0.87, 0.85 and 0.85 respectively. It was established that the PSO Random forest classifier provides best accuracy for the selected dataset and gives an accuracy score of 87.40%.

Keyword: *Phishing Website; Machine Learning Model, Optimization (ML Model); URL*

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Gradient-Step Size Control Algorithm based Single-Phase DVR

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Abstract

The majority of residential, commercial and some industrial loads are single-phase, however the recommended control strategies for dynamic voltage restorers (DVR) in the literature are usually deliberated for three-phase systems. This paper presents a new control strategy for single-phase DVR. The suggested control method is a Gradient-Step Size based Affine Projection (GSSAP) to operate a single-phase dynamic voltage restorer supported by a capacitor. This is an adaptive control scheme that can adjust according to the changing environment and changing statistical conditions. The control scheme generates reference load voltage by separating the essential active and reactive components from the distorted supply voltage. The proposed control algorithm is analysed for different power quality problems like voltage sag, voltage swell, and harmonics in supply voltage using MATLAB/Simulink software. Results show that the suggested GSSAP algorithm-based control technique compensates for voltage sag and swell, carries total harmonic distortion (THD) of load voltage within the acceptable range, and also reduces the steady-state misalignment by maintaining the stability of the system.

Keywords: *VSI, DVR, Control GSSAP, Power Quality.*

*Corresponding author: Tannu

Paper ID: ICCIASH-2023/863

Comparative Analysis of Particle Swarm Optimization and Fuzzy Logic Control for Maximum Power Point Tracking

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Abstract:

This paper deals with the comparative analysis between Fuzzy Logic Control (FLC) and Particle Swarm Optimization (PSO) algorithm for MPPT (Maximum Power Point Tracking). Such techniques are implemented on PV system, boost converters for obtaining duty cycle of the converter. Various steady state and dynamic state response with variable irradiance are obtained in MATLAB/Simulink.

Keywords- *Maximum power point tracking (MPPT), Photovoltaic (PV), Fuzzy logic control (FLC), Particle swarm optimization (PSO).*

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Performance Analysis of Conventional and LLAD Control Algorithm for DSTATCOM

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Abstract: A distribution static compensator (DSTATCOM) is proposed for compensating reactive power and unbalance caused by various loads in the distribution system. To determine reference currents for a DSTATCOM, two distinct approaches are used. The performance of a DSTATCOM under synchronous reference frame theory (SRF-Conventional control) and least logarithmic absolute difference (LLAD- Adaptive control) algorithms are evaluated. A Proportional-Integral (PI) Controller controls the DC-bus voltage of a voltage source converter (VSC). VSC is switched by forcing the source current to follow the reference currents generated by control algorithms via hysteresis-PWM current control. Simulink toolbox is used to simulate this scheme in the MATLAB environment. The simulation results are evaluated under steady state and dynamic conditions with conventional and LLAD control schemes on DSTATCOM.

Keywords: *Power Quality; Distribution Static Compensator (DSTATCOM); SRF; Least Logarithmic Absolute Difference (LLAD) algorithm; Reactive power compensation; Harmonic elimination.*

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Paper ID: ICCIASH-2023/855

INFLUENCE OF WORD-OF-MOUTH USAGE ON INFORMATION ADOPTION, ATTITUDE CHANGE AND MOVIE-GOING INTENTION: EVIDENCE FROM MOLLYWOOD

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ABSTRACT

Movies are narrative products with a very short life and having consumers from all walks of life. In the movie industry (MI) business-initiated promotion strategies fail to cater to the needs of the highly diversified group of consumers. Movie-goers are inclined to others' opinions commonly known as word-of-mouth (WOM) while arriving at their movie-going decision. Although most of the prior researchers focused on whether WOM leads to the promotion of movies, little attention has been paid on how WOM promotes movies especially in developing countries. This study examines how word-of-mouth usage (WOMU) leads to information adoption (IA), attitude change (AC) and movie-going intention (MGI) among movie-goers in Kerala, taking 'Mollywood' as the field of study. Survey method was adopted to collect data from 372 movie-goers identified through multi-stage random sampling technique. Regression analysis was performed to examine the effect of predictor variables. Experience sharing and positive messages were reported to be the most preferred form of WOM by movie-goers. WOMU was found to have a positive and significant effect on IA and AC among movie-goers in Kerala. Also IA was found to have a positive and significant effect on AC. IA and AC accounts for 49 per cent variance in the outcome variable MGI while AC was found to be twice as influential as IA in leading potential movie-goers to watch a new release.

Keywords: *Word-of-mouth, word-of-mouth usage, information adoption, attitude change, movie-going intention*

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Paper ID: ICCIASH-2023/1P1

Phenomena behind Optical Biosensors: A Review

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Abstract:

The paper provides fundamentals of a sensor and its parameters. It explains the basic phenomena behind optical biosensors qualitatively. It also includes recent advancements in the field of optical biosensors giving emphasis on the plasmon enhanced electric field phenomenon. It creates interest to develop new sensing schemes based on fluorescence and SERS devices.

Keywords: *Plasmon, florescence, Transducer, sensor chip, LSPR, SERS*

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Paper ID: ICCIASH-2023/1E1

Using English-Language Films to Support ESL Students Enhance Their Listening and Speaking Abilities

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Abstract:

Many English as second language (ESL) teachers who are not native English speakers face several challenges when it comes to enhancing their students' language abilities, particularly when it comes to building speaking and listening skills. More and more innovative ways are required to handle these issues. The purpose of this study is to look into the usage of English language films in strengthening the oral and listening abilities of student English teachers. Each year, over 600 English-language films are released around the world, and teachers can use them as authentic tools for ESL learners who may find audio and printed materials less stimulating as well. The researcher investigates how regular viewing of English movies can improve language fluency, pronunciation, vocabulary, and awareness of colloquial expressions by utilizing student teachers as participants. The project also investigates if using English movies for ESL learning can increase possibilities to acquire language usage in real life while establishing an independent learning environment. Furthermore, it investigates the possibilities of learning words and phrases in casual contexts that are not taught in ESL schools. Living in an English-speaking country is seen to be the most convenient approach to learn English. Watching movies on a daily basis may give ESL learners with the similar experience in developing their English speaking and listening skills.

Keywords: *barcode, website, recognizing number, online, and digital library.*

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Estimation of Fluoride Ion Content in Ground Water by Ion Selective Electrode Method

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Abstract:

In recent years direct potentiometric titrations has become important as an analytical technique largely because of the development of ion-selective electrodes (ISE). This type of electrode incorporates a special ion-sensitive membrane which may be glass, a crystalline inorganic material or an organic ion-exchanger. Fluoride is recognized as an effective agent for dental caries prevention. Generally, the main source of fluoride intake is drinking water. The World Health Organization recommended limit of fluoride in drinking water is 1.5 mg F(-) L(-1). By understanding the amount of fluoride content in drinking water we can identify the fluoride content is in permissible limit or not. If the content exceeds than the permissible limit it causes fluorosis. We analysed fluorine content of ground water from areas of Pulipalupula, Jamasthanpally and Cherlapally. The values are coming in the range of 1.06 to 1.35 mg/l. Flourine amount can be more for deeper ground water.

Key words: *Potentiometric titration, ion-selective electrodes, Fluoride*

*Corresponding Author: Raji Thomas

Paper ID: ICCIASH-2023/1C2

Exploring Green Nanotechnology: Sustainable Synthesis of Nanomaterials using Plant Extracts

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Abstract:

Green nanotechnology is a promising strategy for sustainable nanomaterial synthesis, utilizing plant extracts as eco-friendly reducing and stabilizing agents. This review explores the potential of green nanotechnology in producing nanoparticles with reduced environmental impact and enhanced biocompatibility. The diverse phytochemical composition of plant extracts offers versatility in nanoparticle design, enabling tailoring of properties for specific applications in catalysis, drug delivery, sensing, and environmental remediation. The green synthesis approach not only reduces hazardous waste generation but also promotes the development of cost-effective and biodegradable nanomaterials. Embracing green nanotechnology can lead to a more responsible and sustainable path in nanomaterial production, fostering innovations for a greener future.

Keywords: *Green nanotechnology, Nanomaterials, Plant extracts, Phytochemicals, Catalysis.*

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Paper ID: ICCIASH-2023/1M1

Importance of Training and Development in the Workplace

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Abstract:

The main objective of this research was to examine the importance of training and development in the workplace. Training is giving to the employee for the specific purpose and task. Training is giving for the short period of time. It is an act to increase the skills and knowledge of the employee for the required purpose or task. Development is designed to improve the quality and performance of present managers and provide growth for present as well as future requirements and need. Now a days in the global environment training and development is become very important as compare to the earlier time. Training and development is the most important for the workplace effectiveness. Training is focus on today's activities of the organization and development is focus on the future tasks and responsibilities. Training and development is one of most important tool of HRM to increase organization's output and competencies. Those employees who attend the more training and development program need less supervision and direction. This study concludes that there is an impact of training and development on the performance of workplace. Also it recognizes that the ability and skills of employee is helpful for the performance of organization and these skills are come from training and development.

Keywords: *Training and development, performance, skills, workplace*

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Paper ID: ICCIASH-2023/1M2

Demonetization and Its Impact on Indian Economy

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Abstract:

This paper entails the problems related to pre and post demonetization period and thereby to find out solutions and to provide suggestions in order to overcome the problem. A survey was conducted around 65 applicants responded actively. Demonetization is the process of withdrawal of a particular form of currency from circulation. The purpose of the study is to compare and analyse the impact of demonetization on Indian economy during pre and post period. The older denominations must be replaced with the new one's. This article also covers the various other countries who tried demonetization they are Nigeria, Ghana, Pakistan, Zimbabwe, North Korea, Soviet Union, Myanmar and Australia. The findings of the study reveals that India will achieve a significant growth by adopting the demonetization strategy and will create a huge positive impact on the entire economy in a long run. This paper also shows that it was a quick step taken by the government of India without any measures which people had to face a lot of consequences

Key words: *Black Money, Black Market, Cashless transactions, Digital economy, Currency, Indian economy, Gross Domestic Product, International Financial Market.*

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Effect of B₂O₃ on Optical Properties of Dy³⁺ Doped Phosphate Glasses

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Abstract

It is well known fact that the addition of B₂O₃ to a phosphate network improves the chemical durability as well as thermal and mechanical stability of pure phosphate glass. In the present work different concentrations of B₂O₃ in zinc-aluminium-sodium-phosphate glasses were synthesized by conventional melt quenching technique. The structural and optical properties are studied by x-ray diffraction (XRD), optical absorption, excitation, photoluminescence, decay lifetime and chromaticity. The amorphous nature of glasses was confirmed by absence of sharp peaks in XRD profile. In visible emission spectra blue, yellow and red bands were observed with dominated intensity in yellow band. Furthermore the sample show a luminescence quenching beyond 20 mol% of B₂O₃ content. The decay life time of ⁴F_{9/2} of Dy³⁺ ion was found to be maximum in ZANPDy0.5:20 B₂O₃ glass.

Keywords: *Borophosphate glasses, rare earth ion, absorption, luminescence, life time.*

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Paper ID: ICCIASH-2023/1C3

Plethora Of Preparatory Features On Single Layered Double Hydroxide Towards Energy Conversion Process

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Abstract: Sun light-driven photocatalytic and photoelectrochemical water splitting are propitious towards solar to chemical energy conversion. Incorporating solitary photoelectrode or dispersed photocatalyst emulated the properties of visible light harvester, together with transporting photogenerated charge carriers for activating the redox activities. Consequently, indulgent the correlation among intrinsic structural behaviour, performance and stability of photoelectrodes/photocatalyst is essential. Hence, layered double hydroxides (LDHs) as one of the propitious photocatalysts intensively researched due to their layered structure and excellent physicochemical properties. Here, this review summarizes the simplified synthesis strategy to fabricate solitary LDHs semiconductor photocatalyst covering optical and morphological aspects towards superior photocatalytic and photoelectrochemical water splitting activities. Initially, the review outlines photocatalytic and photoelectrochemical energy conversion mechanism along with the synthetic methods to highlight the present status of the LDHs for practical application. Afterward, tactics in the synthetic technique of solitary LDHs and their photocatalytic and photoelectrochemical water splitting performances have been reviewed.

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Recent Progress in Synthesis and Characterization of Novel Chalcone Derivatives

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Abstract:

Chalcones are found in a wide variety of edible plants and are the biogenetic precursors to flavonoids and isoflavonoids. Chalcones are active lead compounds in medicinal chemistry for the discovery of novel medicines, with a simple privileged scaffold. Chalcones and their derivatives have a broad range of antiproliferative, antifungal, antibacterial, antiviral, antileishmanial, and antimalarial pharmacological activities due to the presence of a reactive, α,β -unsaturated carbonyl group. A series of chalcones were synthesized via claisen-schmidt condensation in an effort to develop anti-bacterial agents. The IR, ¹H-NMR, and elemental analyses were used to characterize the synthesized compounds. Then, with a focus on structure-activity interactions, we present the synthesis of chalcones and their biological activities. Pharmaceutically significant and patented chalcones are also covered. The field of chalcone chemistry has advanced at a rapid pace in the previous two decades, with numerous innovative and noteworthy discoveries being made. There is a diverse range of structural kinds and a rich chemistry. We proposed to synthesize and describe several chalcones in light of the intriguing results obtained in this sector of chemistry.

Keywords: *Chalcones, claisen-schmidt condensation, characterization, IR, ¹H-NMR*

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Paper ID: ICCIASH-2023/1E2

Influence of Girish Karnad on Indian Plays in Indian Writing in English

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Abstract:

This paper is an attempt to unfold the innumerable contributions by Karnad to the Indian English Theatre with the help of our rich Indian folk cultures, prevalent since the birth of human civilization. *Girish Karnad, a postmodernist playwright, has the ability to use folk theatre in his plays in a very prominent manner. In his plays, he has adapted the idea of culminating the rich Indian culture.* Each of his plays has a unique kind of props which symbolises the main genre of the play. He has rejected the idea of imitation of western world which was in fashion for English writings and chooses to form a fresh way of writing, using our great folk arts. Some of them were prevailing that time and some of them were on the edge of extinction. His plays are usually found very close to common people with a very realistic approach towards the issues of human being. The article must also investigate the various strategies and procedures utilised to communicate the play on stage. Combining the many myths of Sanskrit Literature.

Keywords: *civilization, Indian English Drama, extinction, realistic, folk theatre, Indian culture*

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Paper ID: ICCIASH-2023/1C5

Ferrocene Carboxketone Aryl Hydrazones and Their Ni (II) Complexes

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Abstract:

Reactions of Li_2NiCl_4 with 1-ferrocene carboxketone 4-R-benzoylhydrazones [H_2Ln ; $n = 1-3$ for $\text{R} = \text{OMe}, \text{NH}_2, \text{COOH}$ respectively] and $\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$ in tertiary amine produce three new Nikhil (II) complexes. The complexes have been studied with the help of spectroscopic (infrared, electronic and NMR) measurements. Cyclometallated complexes have been studied extensively, most widely studied systems are those having the activation site [C(sp², aryl), C(sp³, benzyl, aliphatic)]. One of the great developments in this area was the synthesis and characterization of ferrocene cyclometallated derivatives. Cyclonikhilated complexes of ferrocene imines attract a great interest because of their application as catalysts in Mizoroki-Heck reaction, Cyclonikhilated complexes with ferrocenyl imines of bidentate [C, N] donor type are extensively studied because of its potential applications in various fields. tridentate [Cferrocene,N,X] donor type are less explored. In this work we are reporting the synthesis and characteriastion of some Ni(II) complexes of ferrocene carboxaketone aroylhydrazones. These Schiff bases can act as tridentate CNO donor ligands.

Keywords: *1-ferrocene, 4-R-benzoylhydrazones, Spectroscopic Measurements, ferrocene carboxketone aroylhydrazones.*

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Paper ID: ICCIASH-2023/1M3

**Talent Management Practices and Sustainable Organizational Performance:
A Study of selected Cement Companies in Rayalaseema Region**

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Abstract:

This paper aims to explore the composition of “Organization Performance” for employees in Cement Industry of Rayalaseema Region. Research Methodology: The paper applies analyzing data using Reliability Test, Confirmatory Factor Analysis (CFA) and Multiple Linear Regression on a sample of 286 respondents and reduces a set of 24 variables into a list of six attributes talent management practices. The present study proposes a model of the impact of attributes talent management practices on the organizational performance. Implication: The study found that talent acquisition & retention, performance management, learning & motivating, compensation, career development and succession planning are impacting significantly the organizational performance. Therefore, Cement companies should focus on the above factors to provide better talent management practices.

Key words: *Talent Acquisition & Retention, Performance Management, Learning & Motivating, Compensation, Career Development and Succession Planning and Sustainable Organizational Performance*

*Corresponding Author: V. Lakshmi Prasanna Kumari

Paper ID: ICCIASH-2023/1C6

**Titration-based Analysis for Assessing Citric Acid Levels in Soft Drinks,
Juice Drinks, and Energy Drinks**

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KUMMARIKUNTLA SAI KIRAN,

KOUDE SRAVAN KUMAR,

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Abstract:

Citric acid serves as a flavor-enhancing additive in diverse beverage formulations, yet it is noteworthy that heightened concentrations thereof could potentially induce deleterious effects on dental enamel integrity. The aim of this research was to assess the concentration of citric acid in various beverage categories, namely soft drinks, juice drinks, and energy drinks, originating from Hyderabad, India, employing conventional titration methods. Specifically, the results revealed that energy drinks, as derived from a sample size of 2, exhibited an average citric acid concentration of 7.5 ± 0.04 g/L. Juice drinks, comprising a more extensive cohort of 11 samples, displayed an average citric acid concentration of 2.68 ± 0.05 g/L. Notably, soft drinks, encompassing 12 samples, demonstrated the lowest citric acid concentration, averaging at 1.72 ± 0.05 g/L.

Keywords: *Citric acid, energy drinks, juice drinks, Hyderabad.*

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Preparation and Characterization of Cadmium Substituted Cobalt Nano Ferrites by Citrate-Gel Auto Combustion Method

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Abstract:

Nano-crystalline Cadmium substituted Cobalt ferrites with chemical formula $Cd_xCO_{1-x}Fe_2O_4$ (where $X=0.0, 0.1, 0.2, 0.3, 0.4, 0.5$ and 0.6) were synthesized by the citrate-gel auto combustion method. Synthesized powders were sintered at $500^{\circ}C$ for four hours in air and characterized by XRD, SEM, EDS, FTIR. X-ray diffraction (XRD) analysis showed cubic spinel structure of the ferrites and the values of lattice constant (a) and x-ray density (d_x) increased with the increase of Cd content. The surface morphology of the samples was observed by scanning electron microscopy. An elemental composition of the sample has studied by energy dispersive spectroscopy, the Fourier transformation infra-red spectra shows the two significant absorption bands is around the wave numbers range of 400 and 600 cm^{-1} arising due to the inter-atomic vibrations in the tetrahedral and octahedral coordination compounds. In the Dc conductivity measurements the decreases of resistivity with increases of temperature then the conductivity increases with increases of temperature. The dielectric parameters like real part of dielectric constant (ϵ'), *imaginary part dielectric constant (ϵ'')*, of the samples were studied as a function of frequency in the range of 50Hz to 5MHz at room temperature using Agilent E4980 were studied. *The observed results can be explained on the basis of composition.*

Keywords: *Co-Cd Nano ferrites; citrate-gel auto combustion Technique; XRD; SEM; FTIR; DC Resistivity; Dielectric properties.*

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Paper ID: ICCIASH-2023/1P4

An Overview on Energy Materials

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Abstract:

Energy materials are materials that are specifically designed or optimized for use in various energy-related applications. "Energy materials play a crucial role in the advancement of renewable energy technologies and the mitigation of environmental challenges. This abstract explores the significance of energy materials in various applications, such as solar cells, batteries, fuel cells, and thermoelectrics. The synthesis, characterization, and optimization of these materials are pivotal for enhancing energy conversion, storage, and efficiency. Nanomaterials, hybrid composites, and novel structures are emerging as promising avenues for achieving higher performance and sustainability in energy-related applications. The abstract also discusses the challenges and opportunities in the field, highlighting the importance of interdisciplinary research and innovation in addressing global energy demands and reducing carbon emissions."

Keywords: *renewable energy, solar cell, fuel cell, energy storage, nano materials, sustainability.*

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Energy and Environmental Catalysis Driven by Stress and Temperature-Variation

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Abstract:

Effective solutions to the two primary dilemmas of inadequate energy supply and environmental contamination have become a significant focus of researchers for the sustainable development of society and the ecological system. Transforming ubiquitous mechanical force and temperature variation energies into chemical energy by means of the intrinsic characteristics of piezoelectric and pyroelectric nonmaterial's is widely considered to be a powerful strategy to counteract the environmental and energy crisis owing to prominent advantages such as the efficient utilization of directional electric charges and enormous source of stress and temperature fluctuation. This review summarizes the advances in energy and environmental catalysis driven by stress and temperature variation based on piezoelectric and pyroelectric effects. Firstly, the internal characteristics of charge carrier separation and transportation of piezoelectric/pyroelectric catalysts in response to external stress and temperature oscillations and the rational mechanisms of piezoelectric/pyroelectric catalysis are elucidated. Then, the catalytic production of renewable fuels (H₂ evolution from water splitting and CO₂ reduction) and environment remediation (decomposition of organic dyes, mineralization of antibiotics, bacterial inactivation, and removal of heavy metal ions) based on a large number of piezocatalytic and pyrocatalytic catalysts with diverse modification strategies are thoroughly summarized.

Keywords: *renewable energy, solar cell, fuel cell, energy storage, nano materials, sustainability.*

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Variance – Sum Third Order Slope Rotatable Design Using Balanced In Complete Block Designs

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Abstract:

Designs which are used for the study of response surfaces are called response surface designs. Response surface methodology usually adopts sequential procedure. Our objective here is to rapidly and efficiently lead the experimenter to the general vicinity of optimum. Response Surface Methodology (RSM) is a collection of mathematical and Statistical techniques useful for analysing experiments where the yield is believed to be influenced by one or more controllable factors. Box and Hunter (1957) introduced rotatable designs in order to explore the response surfaces. The analogue of Box – Hunter rotatability criterion is a requirement that the variance of $\delta y^{\wedge}(x) / \delta x_i$ be constant on circle ($v=2$), sphere ($v=3$) or hyperspheres ($v=4$) at the design origin. These estimates of the derivatives would then be equally reliable for all points $(x_1, x_2, x_3, \dots, x_v)$ equidistant from the design origin. This property is called as slope rotatability (Hader and Park-1978). Anjanelyulu et al (1995 & 2000) introduced Third Order Slope Rotatable Designs. In this paper we made an attempt to Variance- Sum Third Order Slope Rotatability Design Using Doubly Balanced In complete Block Designs.

Keywords: *Response Surface Methodology, Third Order Slope Rotatable Design, TOSRD (OAD), Variance – Sum Third Order Slope Rotatable Design.*

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Paper ID: ICCIASH-2023/1P5

An Overview on Nano Medicine

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Abstract:

Nano medicine is an innovative field that leverages nanotechnology for medical applications. It involves designing and utilizing nanoparticles to diagnose, treat, and prevent diseases at the molecular level. These tiny particles, often smaller than a cell, offer unique properties that enable targeted drug delivery, imaging, and therapy. Nano medicine has the potential to revolutionize healthcare by enhancing drug efficacy, minimizing side effects, and enabling personalized treatments. As this field continues to advance, it holds promise for transforming the way we approach various medical challenges.

Keywords: *Diagnose, treat, prevent disease, drug delivery, imaging, therapy, side effects.*

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Exploration of Total Hardness of Ground Water in Dhulapally Area by EDTA Method

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Abstract:

Hardness in water is due to the presence of dissolved salts of calcium and Magnesium. It is unfit for drinking, bathing, washing and it also forms scales in Boilers. Hence it is necessary to estimate the amount of hardness producing Substances present in the water sample. The estimation of hardness is based on complexometric titration and can determine by titrating with a standard solution of ethylene diamine tetra acetic acid (EDTA) which is a Complexing agent. Excessive hardness can lead to scale formation in pipes and equipment, decreased efficiency of soaps and detergents, and other operational issues. We analyzed total hardness of ground water which was collected from Dhulapally area. The values of hardness got in the range of 650-400 ppm which is not good for drinking purpose without treatment.

Keywords: *EDTA, Hardness, Calcium, Magnesium*

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Methods for Constrained Optimization in the Study of Health Services
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Abstract:

Given the limitations imposed by patient characteristics, health care system features, finances, and other factors, providing health services with the best possible value to patients and society is strongly dependent on the design of structures and procedures. As a result of their complexity, these issues call for a methodical and methodical approach to finding the optimum answer. Identifying the best answer (the optimal solution) to a problem with multiple potential solutions in the presence of identified restrictions is the goal of constrained optimization, which is a set of techniques. The basic ideas and main phases in developing an optimization model are identified in this study, along with the problems that may be solved optimally in practical health applications and the relevant optimization techniques.

In order to maximize the overall health benefit while keeping in mind time and financial constraints, we first provide a straightforward graphical model based on the treatment of "regular" and "severe" patients. We then connect it to how optimization is important in health care research for tackling today's problems. Additionally, we discuss how these mathematical optimization strategies relate to simulation approaches, common methodologies for health economic research, and the nascent fields of analytics and machine learning.

Key words: *Making decisions, providing care, modelling, and policy.*

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Paper ID: ICCIASH-2023/1A3

Calculate the Best Strategies by Applying Linear Programming to Game Theory

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Abstract:

The primary goal of this work was to apply game theory to linear programming to determine the three players' best strategies. The payoff matrix illustrates the various techniques employed by two competing companies, A and B, while they are vying for the same product. If the payoff matrix cannot be solved using games with saddle points, games without saddle points, such as dominance, $2 \times n$ Graphical Method, or $m \times 2$ Graphical Method, then we can use linear programming to address those model issues.

Key words: *Game, Pay-off Matrix, Saddle point, Strategy, Maximin and Minimax Principle, Dominance Principal, Linear Programming Problem.*

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Paper ID: ICCIASH-2023/1M4

Study of Women Empowerment: Issues and Challenges

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Abstract:

Women's empowerment refers to the process of enabling women to have greater control over their lives and to be able to make their own decisions. Women's empowerment is important because it can lead to a range of positive outcomes, including increased economic growth and development, improved health and well-being, and greater gender equality.

In India, women's empowerment has been a key issue for many years. Despite some progress in recent decades, women in India continue to face significant challenges when it comes to gender equality. These challenges include discrimination, lack of access to education and employment, and gender-based violence.

Women's empowerment can have a range of positive impacts on women's lives, including improved economic opportunities, greater control over their own lives, increased political participation, and greater gender equality. By empowering women to participate fully in the economy, women can have access to better paying jobs, which can help to lift them and their families out of poverty. Empowering women can also give them more control over their own lives, allowing them to make decisions about their own health, well-being, and future, which can lead to increased self-esteem and confidence, as well as improved mental and physical health.

Keywords: *Empowerment, discrimination, self-esteem.*

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Synthesis of Nanomaterials

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Abstract:

Nanotechnology is one of the emerging fields of the 21st Century. Many new devices and patentable technology is based on nanomaterials (NMs). One of the dominant factors in the use of nanomaterials and their applications in various fields is the synthesis and growth mechanism of nanostructures and nanomaterials. A nanostructured material may have been a good candidate in one application but could be more useful in a different application if synthesized by a different mechanism and technique. Similarly, the structure and morphology of a nanomaterial also depend upon the method of growth and synthesis. For example, it is easy to grow and synthesize amorphous nanostructured thin film using the plasma magnetron sputtering technique, but it may be difficult to obtain a similar structure using the thermal evaporation process due to the nature of the technique itself. In this study, the Top-down and Bottom-up methods and techniques of synthesizing nanostructured materials are reviewed, compared, and analyzed. Both approaches are critically analyzed, and the influencing factors on the synthesis of different nanomaterials, the advantages, and disadvantages of each technique are reported. This review also provides a step-by-step analysis of the choice of method for the synthesis of nanomaterials for specific applications.

Keywords: *Nanomaterials, Amorphous, Thin film, Magnetron sputtering, Thermal evaporation*

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Paper ID: ICCIASH-2023/1E3

**Introducing language lab for teaching of English in Technical University,
JNTU-H (Telangana)**

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Abstract:

The inadequate exposure of both rural and urban students of JNTU-H to effective communication skills has resulted in suboptimal academic performance in their respective undergraduate examinations and interviews. Our current challenge pertains to the remarkable technical prowess of individuals with limited proficiency in the English language. On the contrary, the employment prospects accessible to them require and assess the extent of the students' proficiency in the English language. It is imperative that we initiate the incorporation of advanced technological tools in the classrooms to facilitate the acquisition of knowledge by students hailing from both urban and rural settings. This ought to be supplemented by implementation of innovative pedagogical approaches. Similarly, a noteworthy hurdle that persists is the prevalence of mother tongue influence on the English language communication skills of urban students. In order to conform to international benchmarks of English language proficiency and to acquire skills that enhance employability, engineering institutions have been furnished with specialized language laboratories for over a decade and a half. At present, it is highlighted in this article that both urban and rural students have the potential to enhance their communication and employability skills by utilizing language laboratories in both independent and interactive ways.

Key words: communication skills, fluency, proficiency, innovative teaching and learning methods.

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Paper ID: ICCIASH-2023/1E4

**Improving Students' Listening Skill and Vocabulary Mastery through
Contextual Teaching and Learning (CTL) By Using Online Learning for 1st
B. Tech Students**

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Abstract:

The points of this exploration is to describe the process of perfecting the students ' harkening skill and vocabulary mastery through contextual tutoring and literacy(CTL) by using online literacy at the 1stB. Tech students at St. Martin's Engineering council, Secunderabad, it's one of the combined sodalities of JNTUH. This study also attempts to find out the enhancement of the students ' skill in harkening and vocabulary mastery through contextual tutoring and literacy(CTL) by using online literacy. The system used in this exploration was qualitative exploration system by enforcing classroom action exploration (Auto). This exploration was conducted in two cycles conduct in cycle I, cycles and 2. The result of the exploration is the use of contextual tutoring and literacy(CTL) by using online literacy can ameliorate the scholars ' listening skill and vocabulary mastery. The finding of the exploration were(1) the process of tutoring and literacy using CTL through online literacy was conducted successfully in terms of the feeling of happiness and enthusiasm of the scholars,(2) there was an enhancement of the students ' harkening skill from the increased mean of score from 57,85 inpre-test came 81,11 inpost-test. This study suggests that the English schoolteacher may ameliorate her tutoring strategy by optimizing the use of accoutrements at academy; the schoolteacher should be creative in opting , developing and giving accoutrements at class.

Keywords: Perfecting, vocabulary mastery, listening skill, contextual tutoring and literacy, online literacy

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Paper ID: ICCIASH-2023/1E5

Dalit Literature, Caste and Diaspora

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Abstract:

The paper as entitled "Dalit literature, caste and Diaspora" talks about the oppressed class under Indian caste system which forms an important and distinct part of Indian literature mostly which can be seen among Indian Diaspora. It talks about the caste system, its characteristics and also the importance it holds in society. The caste system is dying in India but caste as an identity is becoming stronger day by day. The upward, intellectual class residing in India or abroad still can't come out of it when it comes to marriage proceedings. Dalit literature is often disregarded, and never taken into consideration, but now it is itself a new mode of literary or aesthetic imagination and writings. The history of Dalit literature can be traced back to centuries but Dalit cultural expression were never taken into consideration due to the hegemonic nature of the field of literary production. The emergence of Dalit as a political category and identity crisis coincided with the emergence of Diaspora in Literature, and sometimes it is compared with African-American literature especially in the depiction of the issues of racial segregation and injustice, as seen in Slave Literature. The discrimination of the dalits, the power of caste, the feeling of rootlessness created an identity crisis, a sense of victim hood which intertwine with political and literary dimension.

Keywords: *Caste, diaspora, Jati, rootlessness, identity crisis.*

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Paper ID: ICCIASH-2023/1E6

**English Language Learners: Problems and Solutions Found in the
Research of General Practitioners of Early Childhood**

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Abstract:

Increasing numbers of English Language Learners (ELLs) in early childhood classrooms have created challenges for in-service teachers in the general education setting. Traditional teacher preparation programs tend to lack a curriculum that focuses on second language teaching and learning. This paper reviews the problems facing teachers with regard to teaching at the level of research based best practices for ELLs. In addition, a critical examination of the literature has yielded basic solutions for practitioners. These solutions encompass programmatic (classroom) aspects, teacher training, and classroom pedagogy. The authors have concluded that based on the present literature, more research is needed to identify specific strategies and practices for educating non-native language learners in today's classrooms.

Keywords: *Childhood Classrooms, Curriculum, practitioners literature, non-native language*

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Synthesis and Characterization of Quantum Dots for Optoelectronic Applications

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Abstract:

Quantum dots (QDs) have emerged as promising nanoscale materials with unique optical and electronic properties, making them highly attractive for a wide range of optoelectronic applications. This study focuses on the synthesis and comprehensive characterization of quantum dots to explore their potential in optoelectronics. The resulting quantum dots exhibit size-dependent optical properties, including tunable emission wavelengths through the quantum confinement effect. The characterization aspect of this research employs various spectroscopic and microscopy techniques to investigate the structural, optical, and electronic properties of the synthesized quantum dots. Photoluminescence spectroscopy reveals the size-dependent emission spectra, while absorption spectroscopy provides insights into the electronic transitions within the QDs. Additionally, advanced microscopy techniques, such as transmission electron microscopy (TEM), atomic force microscopy (AFM), and X-ray diffraction (XRD), are utilized to determine the crystalline structure, size distribution, and morphology of the quantum dots. The obtained results shed light on the fundamental properties of quantum dots and their potential applications in optoelectronic devices. This research bridges the gap between synthesis and characterization, contributing to a deeper understanding of quantum dot behavior and its implications for optoelectronic applications. The findings not only enhance our knowledge of nanoscale materials but also pave the way for the design and optimization of next-generation devices that harness the remarkable properties of quantum dots.

Keywords: *Quantum dots (QDs), Nanoscale materials, Optical properties, Light-emitting diodes (LEDs).*

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Paper ID: ICCIASH-2023/1A4

A Study on Applications of Queuing Theory in Health care systems

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Abstract:

In this paper we find out the optimum service rate and the number of servers so that the average cost of being in queuing system and the cost of service are minimized in health care settings. Hospitals are doing their best to provide a variety of medical services to increase patient's satisfaction. In particular they have introduced EMR systems to enhance quality of medical services. To investigate changes in outpatient waiting times before and after the introduction of EMR by applying queueing theory, which includes data collection and the calculation of arrival and service rates.

Keywords: *Queuing system, Healthcare, EMR.*

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Paper ID: ICCIASH-2023/A11

Online Booking System of Travel Agency

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Abstract:

The rapid growth of the internet has revolutionized the way people plan and book their travel arrangements. The online booking system developed by the travel agency serves as a comprehensive platform that enables customers to conveniently browse and book various travel services, including flights, accommodations, car rentals, and tours. Through a user-friendly interface, travelers can access a vast database of options, compare prices, and customize their itineraries according to their preferences and budget. One of the key advantages of the online booking system is its ability to provide real-time availability and instant confirmation. Moreover, the system integrates secure payment gateways, ensuring that transactions are safe and protected. Additionally, the system generates comprehensive reports and analytics, providing valuable insights into customer behavior, popular destinations, and revenue generation.

Key words: *Online booking system, Travel agency, User-friendly interface, Instant confirmation, Customer behavior.*

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Periodic Table Quiz

A Fun and Engaging Approach for Learning Chemistry

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Abstract:

The Periodic Table Quiz Is a digital platform designed to test and enhance users' knowledge of the elements and their characteristics. Through a user-friendly website/app, participants can engage in a dynamic quiz experience that challenges their understanding of the periodic table, atomic structures, chemical symbols, and other essential concepts. Our project leverages the convenience and accessibility of digital technology to make learning chemistry more engaging for students of all levels. Users can access the quiz from anywhere, at any time, allowing for flexible and personalized learning experiences. Whether studying independently or competing with friends, the Periodic Table Quiz provides an interactive and immersive environment to explore and master the fascinating world of chemistry. This project incorporates innovative features such as progress tracking, interactive visual representations.

Furthermore, we have implemented a comprehensive database of questions, covering a wide range of topics related to the periodic table, offering users a diverse and enriching learning experience and the Periodic Table Quiz transforms the traditional approach to learning chemistry, making it more accessible, enjoyable, and effective.

Key words: *Periodic table, chemistry education, interactive learning, digital platform, quiz, knowledge retention.*

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Rule-Based Chatbot in Python

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Abstract:

This code demonstrates the implementation of a rule-based chatbot in Python, which utilizes a dictionary of patterns and corresponding responses to generate appropriate replies based on user input. The chatbot follows a simple conversational structure, where user queries are matched against predefined patterns, and the corresponding response is selected and displayed. The `respond ()` function plays a central role in this process, as it compares the user's input with the patterns and returns the most suitable response. The main loop of the code facilitates the ongoing interaction between the user and the chatbot. It prompts the user for input, invokes the `respond ()` function to generate the bot's response, and displays it to the user. This loop continues until the user indicates their desire to end the conversation by entering "bye". While this example employs a straightforward rule-based approach, it provides a solid foundation for developing more advanced chatbots. By incorporating natural language processing (NLP) libraries such as NLTK or spaCy, developers can enhance the chatbot's capabilities to handle variations in user input, perform sentiment analysis, and extract relevant information from the conversation context. Alternatively, employing machine learning techniques using frameworks like TensorFlow or PyTorch allows for the creation of chatbots that can learn from data and adapt their responses over time.

Key words: *Text generation, Conversational agents, Text classification, Natural Language Processing, Chat Bot*

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Paper ID: ICCIASH-2023/A14

Water Level Prediction from Satellite Image

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Abstract:

Water level prediction using satellite images has gained significant attention in recent years due to its potential applications in various fields, including flood monitoring and water resource management. This project presents a Python program that utilizes satellite imagery data for accurate water level prediction. The program incorporates image processing techniques and machine learning algorithms to extract meaningful features from the satellite images. By analyzing historical water level data in conjunction with corresponding satellite images, the program trains a predictive model to forecast water levels. Experimental results on real-world datasets demonstrate the effectiveness of the Python program in accurately predicting water levels. The developed program provides a valuable tool for early warning systems and efficient water resource management, empowering authorities to make informed decisions and mitigate potential risks. Overall, this project contributes to the field of water level prediction by offering a practical and accessible solution through the use of Python programming.

Key words: *Water level prediction, Satellite imagery, Remote sensing, Flood monitoring.*

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Online Crime file management

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Abstract:

The Online Crime File Management program is a Python-based application designed to streamline the management of crime-related information in an online system. It provides law enforcement agencies with a comprehensive solution for storing, retrieving, and analyzing crime files securely and efficiently.

The program offers a user-friendly web interface that allows authorized users to access the system and perform various actions based on their roles and permissions. It incorporates robust user authentication and access control mechanisms to ensure the security of the data. One of the key features of the program is crime file creation and management. Authorized users can create new crime files and input relevant details such as the type of crime, date and time, location, involved parties, witnesses, and evidence. The system allows for easy updating and editing of these details, ensuring the information remains accurate and up to date. To facilitate quick retrieval of crime files, the program provides powerful search and filtering capabilities.

Key words: *Web-based, Authentication, Access Control ,Search and Retrieval, Case Status Tracking, Analytics and Reporting*

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Safety Alarm to Detect Drowsiness of Driver

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Abstract:

Driver drowsiness is a major contributing factor to road accidents worldwide, posing a significant threat to public safety. To address this issue, we propose a real-time drowsiness detection system designed to monitor driver alertness and mitigate the risk of accidents caused by drowsy driving. Our system utilizes a combination of computer vision techniques and machine learning algorithms to analyze driver behavior and physiological signals in real-time. The system's core component is a camera-based eye tracking module that captures and analyzes the driver's eye movements, such as blink rate, eye closure duration, and gaze direction. The model takes input from the eye tracking module and physiological sensors, leveraging their combined features to make accurate predictions in real-time. The proposed drowsiness detection system holds immense promise in the automotive industry, contributing to the development of advanced driver assistance systems and autonomous vehicles. By mitigating the dangers associated with drowsy driving, this technology can save lives, reduce injuries, and make our roads safer for everyone.

Key words: *Drowsiness detection, Safety alarm, Human eye, Sleepiness detection, sensor sound alarm.*

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Sentiment Analysis of Social Media Emojis

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Abstract:

Sentiment Analysis of Social Media Emojis is a project that focuses on analysing the sentiment conveyed by emojis in social media posts. Emojis have become an essential part of online communication, offering a compact and expressive way to express emotions. By interpreting the sentiment behind these emojis, valuable insights can be gained into the overall sentiment of social media conversations. The project involves collecting a dataset of social media posts containing emojis, preprocessing the data, mapping emojis to sentiment labels, and training a sentiment analysis model using machine learning or deep learning techniques. The model is then used to predict sentiment labels for new social media data, providing valuable information about sentiment patterns and trends. This project enhances our understanding of sentiment expression in social media and enables applications such as brand monitoring and user sentiment analysis.

Key words: *Sentiment analysis, Social media, Emojis, Emotional expression, Communication.*

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Paper ID: ICCIASH-2023/A18

Books Recommendation System- Analyze It's Working and Convey Changes

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Abstract: Book Buddy is a personalized book recommendation system designed to assist users in discovering their next favorite book. In today's digital age, the overwhelming abundance of available books makes it challenging for readers to identify the perfect read that aligns with their interests and preferences. The aim of BookBuddy is to alleviate this problem by leveraging advanced machine learning techniques to provide tailored book recommendations to users based on their unique tastes. The system utilizes a collaborative filtering approach, which combines user preferences with similarity measures derived from the behavior of similar users. By analyzing user interactions such as book ratings, reviews, and browsing history, BookBuddy creates a comprehensive user profile that captures individual reading preferences and patterns. This profile is then compared to a vast database of books, which includes various genres, authors, and topics. To enhance the recommendation process, BookBuddy employs state-of-the-art natural language processing techniques to extract key features from books, such as genre, writing style, and thematic elements. These features are used to build a book representation model that captures the essence of each title and enables effective matching with user profiles. The system continually adapts and refines its recommendations by leveraging user feedback and incorporating new book releases.

Key words: *digital age, BookBuddy, writing style, thematic elements*

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Paper ID: ICCIASH-2023/A19

Dog Breed Classification Using Deep Learning Techniques

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Abstract:

Artificial Intelligence, Machine Learning and Deep Learning are the buzzwords that have been able to grasp the interest of many researchers since various numbers of years. Enabling computers to think, decide and act like humans has been one of the most significant and noteworthy developments in the field of computer science. Various algorithms have been designed over time to make machines impersonate the human brain and many programming languages have been used to implement those algorithms. Python is one such programming language that provides a rich library of modules and packages for use in scientific computing and machine learning. This paper aims at exploring the basic concepts related to machine learning and attempts to implement a few of its applications using python. This paper majorly used Scikit-Learn library of Python for implementing the applications developed for the purpose of research.

Key words: *Machine Learning, Python, Scikit-Learn, AI, ML, Deep Learning, NumPy, Matplotlib, Workflow of machine learning, NLTK*

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Paper ID: ICCIASH-2023/A20

Online Student Registration System

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Abstract:

Online examination contents provides to focus on creating effective assessment questions and focusing on exams feedback delivery to students. In the paper we present techniques that are pertinent to the elements of assessment process: answers submission, computerized grading and feedback after submission. As the modern organizations are automated and computers are working as per the instructions, it becomes essential for the coordination of human beings commodity and computer in a modern organisation. The administrators, instructor, Students who are attending for online examination can communicate with the system through this projects, thus facilitating effective implementation and monitoring of various activities of online examinations like conducting exam as per schedule bases and delivering result to that particular use of student. And the details of students who attempted online examination are maintained at administrator.

Key words: *Online registration, Computers, Implementation, examination feedback*

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Online Library Student Management System

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Abstract:

The Online Library Student Management System is a comprehensive platform designed to streamline and enhance the management of library resources for educational institutions. This system leverages the power of the internet and technology to provide a convenient and efficient solution for students and librarians. The system functions by creating a digital repository of resources, accessible through an online interface. Students can search for and access a wide range of materials, including e-books, journals, research papers, and multimedia content. The system also allows for easy borrowing and return of physical books through an integrated library management module.

The Online Library Student Management System offers several benefits. Firstly, it provides students with anytime, anywhere access to a vast collection of resources, eliminating the limitations of physical library hours and locations. Secondly, it simplifies the borrowing process, reducing administrative burdens for both students and librarians.

Key words: *online library, student management, leveraging technology, e-books*

Paper ID: ICCIASH-2023/A22

Student Result Analysis and Performance Report Generator

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Abstract:

This is a student result analysis micro project. It allows the user to enter student names and roll numbers, and then enter marks for various subjects (P&S, Python, DLD, DBMS, and BEFA) for each student. Once the marks are entered, the program calculates and displays the total marks, percentage, grade, and result for each student.

The program uses the tkinter module to create an interface. A Tk() object to create the main window, and various other objects such as Label, Entry, and Button to create the various widgets in the window. It also uses the csv module to write the student data and result data to CSV files.

Moreover, the system enables the identification of subject-specific strengths and weaknesses among students. By analyzing the scores in each subject, it highlights areas where students excel and areas that require additional attention.

In conclusion, the student result analysis system in python provides a comprehensive solution for processing and analyzing student academic performance data. It empowers educational institutions with valuable insights, facilitating evidence-based decision-making and fostering continuous improvement in teaching and learning processes.

Key words: *Result Analysis, tkinter, Data Analysis, performance*

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Paper ID: ICCIASH-2023/A23

Amazon Advanced Quality Product Ordering

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Abstract:

Amazon advanced quantity product ordering is a feature that allows customers to order large quantities of items at a discounted price. This feature is especially useful for businesses and individuals who need to purchase items in bulk. The feature is available for a wide range of products, including office supplies, electronics and household items. Customers can choose the quantity they need, and the discounted price is automatically applied at checkout. This feature helps customers save money and time by streamlining the ordering process. Amazon is known for its advanced order processing and fulfillment capabilities. The company utilizes sophisticated algorithms and logistics systems to efficiently manage and fulfill orders. Customers can place orders for a wide range of products through Amazon's website or mobile app. Once an order is placed, Amazon's system processes the payment and verifies the availability of the item. If the item is in stock, it is prepared for shipment from one of Amazon's fulfillment centers. Amazon operates a vast network of warehouses strategically located around the world to enable quick delivery. In recent years, Amazon has also introduced advanced fulfillment options, such as same-day or next-day delivery for eligible items in select locations. Additionally, Amazon Prime members enjoy expedited shipping and access to additional benefits, such as Prime Video and Prime Music. It is worth noting that Amazon continually updates its systems and processes to improve order management and customer experience.

Key words: *Customer, business, delivery, shipping, logistics, website.*

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Automated Teller Machine Management System

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Abstract:

The Automated Teller Machine (ATM) Management System is a comprehensive software solution designed to streamline and enhance the management and operation of ATMs in a banking environment. The system automates various aspects of ATM management, including cash replenishment, maintenance, and transaction monitoring, and reporting. The primary objective of the ATM management system is to ensure the availability of cash at ATMs, minimize down time, and provide a seamless experience for bank customers. The system incorporates advanced algorithms and real-time data analysis to optimize cash forecasting and replenishment schedules, reducing the risk of cash shortages or excesses.

It provides real-time monitoring of transaction volumes, error rates, and ATM status, allowing proactive maintenance and troubleshooting to minimize downtime. The system generates alerts and notifications for critical events, such as low cash levels or technical failures, enabling prompt actions by bank staff. Additionally, the ATM management system offers comprehensive reporting and analytics capabilities. It generates detailed reports on ATM performance, transaction trends, cash utilization, and service level agreements.

Key words: *ATM, error rates, network optimizing. operational efficiency*

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Online Movie Reviewing and Rating System

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T KESHAVA CHARY

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Abstract:

The Online Movie Reviewing and Rating System is a web-based platform designed to facilitate movie reviews and ratings by users. This system provides a convenient and interactive interface for movie enthusiasts to express their opinions, discover new films, and engage in discussions. Built using Python, the system utilizes various libraries and frameworks to create a dynamic and user-friendly platform. It incorporates a database management system to store movie information, user profiles, and reviews. Python's extensive data manipulation and analysis capabilities enable the system to gather insightful metrics and generate personalized movie recommendations. Registered users can search for movies, access detailed information, and view reviews and ratings submitted by others. They can contribute by posting their own reviews, rating movies, and participating in discussions through comments and likes. The system also features a recommendation engine that suggests movies based on user preferences, ratings, and viewing history. Additionally, the system employs sentiment analysis algorithms to analyze reviews and determine overall sentiments..

Key words: *Online movie reviewing, rating System, python-based approach, user-generated content.*

*Corresponding Author: T Udeep

Detection of Diseases Using Python Based Diagnostic Algorithms

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Abstract:

In the modern world, computers and smartphones have taken over many aspects of our lives, and the healthcare industry is no exception. Health practitioners are increasingly migrating health and healthcare data from paper to electronic formats, and healthcare facilities are generating massive amounts of data as a result. Python is an essential programming language that data scientists use to create solutions for multiple challenges in healthcare. In this project, it introduces a novel approach for disease detection using diagnostic algorithms developed in Python. With the growing complexity of medical data and the need for efficient diagnosis, our study aims to simplify disease detection by leveraging the power of computer programming. By employing Python, a widely used and accessible language, we have developed algorithms that analyze various medical datasets and provide accurate diagnoses. Our diagnostic algorithms utilize machine learning and data analysis techniques to process medical information such as patient symptoms, laboratory test results, and medical imaging data. By training these algorithms on large datasets of known disease cases, we have achieved high levels of accuracy in disease detection. The algorithms can effectively identify patterns, correlations, and anomalies within the data, enabling quick and reliable diagnoses. The simplicity and ease-of-use of Python make our diagnostic algorithms accessible to a wide range of medical professionals, including clinicians, researchers, and healthcare providers.

Key words: *computers, smartphones, Python*

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Railway Reservation System

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Abstract:

Railway ticket booking is a system that allows passengers to reserve seats or berths on trains for their journeys. It involves online platforms where passengers can search for available trains, select seats, make payments, and receive confirmation. Cancellation and refund options are provided, and security measures ensure data privacy. The abstract highlights the convenience and efficiency of the process, enabling a seamless travel experience. Purpose: The primary purpose of railway ticket booking is to provide a convenient and organized method for passengers to reserve seats or berths on trains for their intended journeys. Railway ticket booking systems may also integrate with other services to enhance the passenger experience. These services could include seat selection, meal preferences, special assistance requests, and additional options such as travel insurance or extra luggage allowances. To safeguard the security and privacy of passenger data, robust security measures are implemented within the booking system. In summary, railway ticket booking is a comprehensive system that offers passengers a convenient and efficient way to reserve seats or berths on trains.

Keywords: *Railway ticket booking, Cancellation and refund*

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Chatbot

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Abstract:

This code demonstrates the implementation of a rule-based chatbot in Python, which utilizes a dictionary of patterns and corresponding responses to generate appropriate replies based on user input. The chatbot follows a simple conversational structure, where user queries are matched against predefined patterns, and the corresponding response is selected and displayed. The `respond()` function plays a central role in this process, as it compares the user's input with the patterns and returns the most suitable response. The main loop of the code facilitates the ongoing interaction between the user and the chatbot. It prompts the user for input, invokes the `respond()` function to generate the bot's response, and displays it to the user. This loop continues until the user indicates their desire to end the conversation by entering "bye". While this example employs a straightforward rule-based approach, it provides a solid foundation for developing more advanced chatbots. By incorporating natural language processing (NLP) libraries such as NLTK or spaCy, developers can enhance the chatbot's capabilities to handle variations in user input, perform sentiment analysis, and extract relevant information from the conversation context. Alternatively, employing machine learning techniques using frameworks like TensorFlow or PyTorch allows for the creation of chatbots that can learn from data and adapt their responses over time.

Keywords: *chatbot in Python, natural language processing*

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Qr Code Generator

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Abstract:

A QR code is also known as the quick response. The data stored in them can be url of the websites, webpages and also the information of the particular person, place ect. Now a days the QR code is very famous, it is also been used in upi's to make the transactions etc. A QR code is a type of barcode that can be read easily by a digital device and which stores information as a series of pixels in a square-shaped grid. QR codes are frequently used to track information about products in a supply chain and because many smart phones have built in QR readers -they are often used in marketing and advertising campaigns. The data stored in QR code can be up to 4000 characters of text. QR codes can also be used to :

>Link directly to download app on the play store or app store

>access wi-fi by storing encryption details such as ssid, passwords, and encryption type

>send and receive payment information

How do we use qr code:

1. Open the QR code reader application or the camera on your smart phone
2. Point it at the QR code you should be able to point your camera from any angle and still receive the necessary information
3. The data will be instantly shown on screen for instance, if the QR code contains contact details, your phone should instantly download these .

Keywords: *QR code, digital device*

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Currency Converter
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Abstract:

The currency converter application built using Python provides a convenient way to convert currency amounts between different currencies. The application utilizes an API, specifically the Open Exchange Rates API, to fetch the latest exchange rates. By entering the amount to be converted, the currency to convert from, and the currency to convert to, the application retrieves the corresponding exchange rates and performs the currency conversion calculation.

The core functionality of the currency converter is encapsulated within the `convert_currency` function. This function establishes a connection with the Open Exchange Rates API and retrieves the necessary exchange rate information. It verifies the validity of the provided currencies and calculates the converted amount based on the exchange rates. The converted amount is then returned to the caller.

The example code demonstrates a simple implementation of the currency converter. However, it can be extended and customized according to specific requirements. Additional features, such as handling multiple conversions or incorporating a graphical user interface, can be implemented to enhance the user experience. The currency converter application illustrates the practical use of APIs in Python programming. It showcases how APIs can be leveraged to access external services, retrieve data, and perform computations.

Keywords: *API, Open Exchange Rate*

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Paper ID: ICCIASH-2023/A31

Weather Forecasting
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Abstract:

Weather forecasting plays a crucial role in various sectors, including agriculture, transportation, and disaster management. This abstract presents a comprehensive approach to weather forecasting and analysis using Python programming language. The project aims to leverage Python's rich ecosystem of libraries and tools to gather, process, and analyze weather data, ultimately providing accurate forecasts and valuable insights.

The study begins by discussing the importance of weather forecasting and its impact on different industries.

It explores various data sources for weather information, including

- Meteorological stations ,Weather APIs ,Satellite Imagery

Python libraries such as NumPy, Pandas, and Matplotlib are utilized for data acquisition, cleaning, and visualization.

Keywords: *root mean squared error, real-time data retrieval*

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Restaurant Billing System

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Abstract:

The Restaurant Billing System is a program developed in Python to automate and streamline the billing process in a restaurant. It provides an efficient and user-friendly interface for generating bills, calculating totals, and managing customer orders. The system includes features such as menu selection, item customization and order tracking. The program utilizes object-oriented programming principles to create classes for various entities, including menu items, orders, and bills. It employs a combination of data structures, such as lists and dictionaries, to store and manipulate data related to menus and orders. The Restaurant Billing System program allows restaurant staff to perform the following functions:

Menu Management: The system provides an interface to add, modify, or remove menu items. **Order Placement:** Customers can place their orders by selecting items from the menu. **Order Tracking:** The system maintains a record of all orders placed, including the date, time, and status. **Bill Generation:** When an order is complete, the system generates a detailed bill that includes the ordered items, their quantities, prices, and any additional charges. **Reporting and Analytics:** The system provides reports and analytics on various aspects, such as sales performance, popular items, and revenue generated.

Keywords: *Order Tracking, Bill Generation*

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Paper ID: ICCIASH-2023/A33

Personal Assistance
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Abstract:

Personal assistance in Python is a powerful tool that can be used to create a virtual assistant that can help with a variety of tasks. This can be done by using the speech recognition and text-to-speech libraries in Python. The speech recognition library can be used to convert audio into text. This can be used to allow the virtual assistant to understand what the user is saying. The text-to-speech library can be used to convert text into audio. This can be used to allow the virtual assistant to speak to the user. The virtual assistant can be programmed to perform a variety of tasks. Some common tasks include:

- Opening websites
- Searching Wikipedia
- Telling the time
- Answering questions

Keywords: *Python, speech recognition*

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Virtual Voting System

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Abstract:

The increasing reliance on technology and the need for efficient, transparent, and secure voting systems have led to the development of online voting systems. This abstract presents an overview of an Online Voting System implemented using the Python programming language. The proposed online voting system aims to provide a user-friendly, secure, and reliable platform for conducting elections remotely. The key features of the online voting system include:

1. **User Registration and Authentication:** Eligible voters can register themselves on the platform by providing necessary information and authenticating their identity to ensure only authorized users can participate
2. **Ballot Creation and Management:** Election administrators can create and manage ballots, define candidate options, and set voting rules.
3. **Secure Transmission and Storage:** The system employs encryption techniques to ensure secure transmission of voter data and ballot information.
4. **Real-time Monitoring:** The system provides real-time monitoring capabilities to election administrators,
5. **Auditing and Result Generation:** Comprehensive auditing mechanisms are implemented to ensure the integrity of the voting process.
6. **Accessibility and Usability:** The online voting system focuses on accessibility and usability,

Keywords: *Real-time Monitoring, Secure Transmission*

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Password Generator
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Abstract:

This project presents a password generator implemented using the Python programming language. The purpose of the program is to generate strong and secure passwords that can be used for various online accounts, ensuring better protection against unauthorized access. The password generator utilizes a combination of characters, including uppercase and lowercase letters, digits, and special symbols, to create unique and random passwords. The program allows users to specify the length of the password and the desired complexity level.

To ensure randomness, the program incorporates the random module in Python, which generates random numbers and selects characters from predefined sets. It employs a secure random number generator to prevent predictability and enhance the overall strength of the generated passwords. The password generator program also includes features such as an interactive user interface, error handling for invalid inputs, and the ability to generate multiple passwords at once. It provides users with the flexibility to customize the password generation process according to their specific requirements. By using this password generator, users can create strong and reliable passwords, improving their security posture in the digital realm. The program serves as a practical tool for individuals, organizations, and developers who seek a convenient and efficient method to generate secure passwords in Python.

Keywords: *Python programming language, password generator*

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Bus Reservation System

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Abstract:

A bus reservation system is a mobile or web software solution designed to provide customers with a personalized easy-to-utilize user experience for booking and purchasing tickets online. It stores customers personal data records, scheduled routes frequent trips, drop points, and other information. It provides a facility which is used to reserve seats and cancellation of reservation and different types of route enquiries used on securing quick reservations. Bus reservation system is a software application that allows users to book bus tickets online. It provides a convenient way for passengers to search for available buses, select their desired seats, and make reservations without the need to visit a physical ticket counter. Here are some key features and components typically found in a bus reservation system: Bus Management: The system manages information about various buses, including bus routes, schedules, available seats, and fares. Seat Selection: Passengers can view the seating layout of the bus and select their preferred seats. The system should display which seats are already reserved and which ones are available.

Keywords: *Ticket Booking, Booking Confirmation*

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Paper ID: ICCIASH-2023/A37

Phone Contact Book
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Abstract:

Contact books are a useful and widely used application all over the world. They're everywhere. You probably might have a contact book on your phone and on your computer. With a contact book, you can store and manage contact information for your family members, friends, coworkers, and so on. Real world projects will require you to apply different and varied coding skills which will also encourage you to research topics that pop up as you're solving problems in the development process. In this project, the main aim is to build a contact book application with Python with minimal-to-minimal code. With this the user will get to know how to create a basic contact book using Python language to store and also to search contacts when ever needed. With some modifications you can make it very useful for yourself and for others too.

Keywords: *Real world projects, minimal-to-minimal code*

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Simple Calculator
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Abstract:

The simple calculator is a system software which allows us to perform simple mathematical operations such as addition, subtraction, multiplication, division etc. To develop this system we have used the concept of class and object first we defined the class calculator and defined the various functions inside this class of various mathematical operations and each function is different from each other. After that we prompted user to provide the input for two numbers. And at the end of the program we have created the object of calculator class and called all the function defined inside the class one after one for different task as per their respective operations. In an abstract calculator, the emphasis is on the mathematical operations it can perform and the methods used to input and display numbers and results. It typically includes a set of basic arithmetic operations such as addition, subtraction, multiplication, and division. Depending on the complexity. A simple calculator abstract typically includes the following key elements:

Basic arithmetic operations: It supports fundamental mathematical operations such as addition, subtraction, multiplication, and division. These operations are used to perform calculations on numbers.

Input methods: The calculator provides a means for users to input numbers and operators. This can be achieved through a keyboard, buttons, or a graphical user interface (GUI). The input methods should be intuitive and user-friendly.

Keywords: *graphical user interface, calculator*

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Gaming Setup
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M YOGENDER GOUD

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Abstract:

In the modern world of gaming, having a well-designed and immersive gaming setup can greatly enhance the overall gaming experience. This abstract outlines a proposed ITWS (Interactive Technology and Web Science) project that aims to explore the components and design principles necessary to create an immersive gaming setup. The project will start by investigating the hardware components required for an optimal gaming experience. This includes studying gaming consoles, high-performance gaming PCs, gaming monitors, audio equipment, and peripherals such as keyboards, mice, and controllers. The objective is to understand the technical specifications and features that contribute to a seamless gaming environment.

Next, the project will delve into the realm of software and explore gaming platforms, operating systems, and game optimization techniques. This research will involve understanding the compatibility of different games with hardware, exploring graphical settings, and identifying software tools that can enhance the gaming experience.

Keywords: *Interactive Technology and Web Science, high-performance gaming PCs*

Biometric E-Transaction
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Abstract:

In recent years, the rapid advancement of biometric technologies and the increasing popularity of electronic transactions have opened up new possibilities for secure and convenient digital transactions. This abstract outlines an ITWS (Interactive Technology and Web Science) project that aims to explore the integration of biometric authentication into e-transactions to enhance security and user experience. The project will commence by studying the fundamentals of biometric authentication, including various biometric modalities such as fingerprints, iris scans, facial recognition, and voice recognition. The objective is to understand the strengths, limitations, and potential vulnerabilities associated with different biometric techniques. Next, the project will focus on the design and development of an e-transaction system that incorporates biometric authentication. This involves analysing existing electronic transaction platforms and protocols, and devising mechanisms to seamlessly integrate biometric authentication into the transaction workflow. The system will aim to strike a balance between security, usability, and privacy. Furthermore, the project will investigate the usability and user experience aspects of biometric e-transactions. The findings will guide the refinement of the system's user interface and interaction design. Additionally, the project will address the issues of interoperability and standardization in biometric e-transactions.

Keywords: *biometric authentication, e-transactions*

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Impact of 5g

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RIKKALA NIKHITHA REDDY,
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Abstract:

The mobile industry is developing and preparing to deploy the fifth-generation (5G) networks. The evolving 5G networks are becoming more readily available as a significant driver of the growth of IOT and other intelligent automation applications. 5G's lightning-fast connection and low-latency are needed for advances in intelligent automation—the Internet of Things (IOT), Artificial Intelligence (AI), driverless cars, digital reality, blockchain, and future breakthroughs we haven't even thought of yet. The advent of 5G is more than just a generational step; it opens a new world of possibilities for every tech industry. The purpose of this paper is to do a literature review and explore how 5G can enable or streamline intelligent automation in different industries. This paper reviews the evolution and development of various generations of mobile wireless technology underscores the importance of 5G revolutionary networks, reviews its key enabling technologies, examines its trends and challenges, explores its applications in different manufacturing industries, and highlights its role in shaping the age of unlimited connectivity, intelligent automation, and industry digitization.

Keywords: *Internet of Things, Artificial Intelligence*

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Paper ID: ICCIASH-2023/A42

Advanced Liquid Cooling System for CPU

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Abstract:

In recent years, the demand for high-performance computing has grown significantly, driving the need for more efficient cooling solutions to prevent thermal throttling and ensure optimal operation of central processing units (CPUs). This abstract presents an advanced liquid cooling system designed to address the challenges associated with heat dissipation in CPUs, ultimately enhancing performance and efficiency.

The proposed liquid cooling system utilizes a closed-loop configuration comprising a pump, radiator, tubing, and heat sink, with a coolant circulating through the system. The liquid coolant absorbs the heat generated by the CPU and transports it to the radiator, where it is efficiently dissipated into the ambient environment through the process of convection. By leveraging the high heat capacity and thermal conductivity of the liquid coolant, this cooling solution is capable of effectively managing the heat generated by modern CPUs, even under heavy computational workloads.

Keywords: *central processing units, high-performance computing*

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Whats App Timing Schedule

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Abstract:

The main aim of the project is to add a feature to Whats App messenger application by which we can send a message at desired time. By using time scheduling we can make the person we want to receive message at particular time set by the user. This project is implemented by using Pywhatkit package of python. Pywhatkit is a Python library with various helpful features. It's easy-to-use and does not require you to do any additional setup. Currently, it is one of the most popular libraries for WhatsApp and YouTube automation. New updates are released frequently with new features and bug fixes. The main objective of this project is to add time scheduling feature in WhatsApp messenger. This feature is already available in other messenger applications like Telegram, Viber but we want to introduce this feature in WhatsApp as it is widely used. This feature allows us to send important messages at the time we want without forgetting. This feature allows you to schedule a message in advance so that you don't miss out on sending important messages on time, simply because you may forget. Schedule WhatsApp feature can be quite useful in ensuring that users do not forget to send birthday or anniversary wishes on time.

Keywords: *website, online, messages, identification number*

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Empowering Fashion Essentials

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Abstract:

The existing system of the clothing store consists of a physical retail space where customers can browse through a selection of clothing items. The store offers a variety of basic apparel essentials such as t-shirts, jeans, sweaters, and accessories. Customers can explore different sizes, colours, and styles to find garments that suit their preferences. The current system relies on traditional checkout processes and in-person customer service. The proposed system for the clothing store aims to enhance the overall shopping experience and streamline operations. The introduction of a user-friendly online platform will allow customers to browse and purchase items from the comfort of their homes. The proposed system will also include features such as size charts, detailed product descriptions, and customer reviews to assist customers in making informed decisions. Additionally, the proposed system will implement a loyalty program to reward frequent customers, fostering long-term relationships and customer retention. The program will offer exclusive discounts, early access to new arrivals, and personalized recommendations based on individual preferences and purchase history. To further enhance the customer experience, the proposed system will introduce self-service checkout kiosks within the physical store. This will provide customers with a convenient and efficient way to make purchases, reducing waiting times during peak hours.

Keywords: *Inclusion and exclusion criteria, warm glow, co-creation*

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Word Guessing Game

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Abstract:

The Word Guessing Game is a popular interactive game that challenges players to guess a secret word by iteratively suggesting letters or attempting to uncover the entire word. This abstract presents an overview of a Python implementation of the Word Guessing Game, highlighting its dynamic and engaging features. The game is designed using fundamental programming concepts in Python, leveraging the power of loops, conditionals, and string manipulation. The code initiates by randomly selecting a secret word from a predefined word bank, ensuring a diverse and unpredictable gameplay experience. The chosen word remains concealed, represented by a series of underscores or dashes. Players are prompted to input letters, and the code efficiently handles their guesses. It verifies the input's validity, ensuring it is a single alphabetical character that has not been previously attempted. The code then compares the guessed letter with the letters of the secret word, updating the concealed representation accordingly. Correct guesses reveal the positions of the corresponding letters in the word, while incorrect guesses reduce the number of remaining attempts. To enhance user interaction and immersion, the code incorporates user-friendly messages and prompts, guiding players throughout the gameplay.

Keywords: *secret of word, wrong and right guesses*

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Secure Pass

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Abstract:

Secure pass is a Python-based password management application designed to enhance the security and convenience of managing and strong passwords. In today's digital world, where numerous online services require unique and string passwords, it is crucial to employ robust security measures while maintaining usability. Secure pass aims to address these challenges by providing a user-friendly interface, strong encryption techniques, and reliable password storage. The application offers features such as password generation, storage, retrieval, and synchronization. Developed using Python, Secure pass leverages its rich ecosystem of libraries and framework to provide a reliable and extensible solution. The application employs industry standard security practices and follows best practices for password management. In conclusion, Secure pass is a Python-based password management application that offers a secure and user-friendly solution for managing passwords. By combining strong encryption techniques, convenient features and privacy enhancing measures, Secure pass strives to empower users to protect their online accounts effectively. Across multiple devices. Users can create complex and unique passwords using customizable criteria, eliminating the need to remember multiple passwords. Secure pass utilizes advanced encryption algorithms, ensuring that passwords remain secure and protected from unauthorized access.

Key words: *passwords, security of data,*

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Wifi QR Code Generator

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Abstract:

The WiFi QR code generator is a versatile tool that simplifies the process of connecting to a Wi-Fi network by generating QR codes containing network credentials. This abstract highlights the key features and benefits of the WiFi QR code generator. Traditional methods of sharing Wi-Fi network details, such as manually typing complex passwords or verbally communicating them, can be cumbersome and error-prone. The WiFi QR code generator addresses this issue by generating a scannable QR code that encodes all the necessary network information. The generator accepts input such as network name (SSID), password, security type, and other optional parameters. It then generates a QR code that can be easily printed or displayed on digital platforms. Users can conveniently scan the QR code using their smartphones or other QR code scanning devices, instantly connecting to the Wi-Fi network without the need to manually enter any information.

Keywords: *contents,password,SSD*

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Weather Forecast

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Abstract:

The Weather Forecast Project aims to develop a data-driven system for accurate and reliable weather prediction using Python programming language. Leveraging historical weather data and machine learning techniques, this project seeks to provide users with timely and precise weather forecasts to enhance their planning and decision-making capabilities. The project utilizes Python's powerful libraries, such as Pandas for data manipulation, NumPy for numerical operations, and Scikitlearn for machine learning algorithms. Historical weather data, including temperature, humidity, wind speed, precipitation, and other relevant meteorological variables, are collected from reliable sources and processed for analysis. The developed weather forecast system provides users with an intuitive and user-friendly interface to input their desired location and obtain accurate weather predictions. By incorporating real time data from weather APIs, the system enhances forecast accuracy by continuously updating and adjusting predictions based on the most recent information. The Weather Forecast Project offers significant potential benefits, including improved planning for outdoor activities, optimized resource allocation for agriculture, and enhanced safety measures during severe weather events. By harnessing the power of Python and machine learning, this project demonstrates the potential of data-driven approaches in revolutionizing weather forecasting and supporting informed decision-making.

Key words: *weather station, meteorology, weather forecast*

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Contact List

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Abstract:

The Contact List Management System is a Python project designed to provide a comprehensive and efficient solution for managing contact information. In today's interconnected world, maintaining an organized and easily accessible contact list is crucial for personal and professional communication. This project aims to streamline the process of storing, retrieving, updating, and deleting contacts through a user-friendly interface. The Contact List Management System utilizes Python's object-oriented programming paradigm to create a robust and scalable application. It employs various data structures and algorithms to optimize contact storage and retrieval operations, ensuring fast and efficient performance even with large contact lists. The main Key Features are Contact Creation and Storage, where users can input contact details, including name, phone number, email address, and additional notes, which are then stored in a structured manner within the application.

Keywords: *email conversions, helps us, improve your business*

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Snake Game

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Abstract:

This project aims to bring the fun and simplicity of snake game with some new features. It will include computer controlled intelligent opponents whose aim will be to challenge the human players. It will also have the multiplayer feature that will allow more than one players to play the game over a network. This project explores a new dimension in the traditional snake game to make it more interesting and challenging. The simplicity of this game makes it an ideal candidate for a minor project as we can focus on advanced topics like multiplayer functionality and implementation of computer controlled intelligent opponents. This game aims to change the way people think of traditional snake game. It will offer the experience of commercial multilayer games to the player retaining the simplicity of traditional snake game. The major objectives of this project are:

- Create a snake game that will have all the functionality of traditional snake games.
- Introduce multilayer functionality in the game that will allow several players to play a game simultaneously. It should be able to give the experience of a real time multiplayer game to the players.

Keywords: *high score, beginner tutorial, micro bit..*

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Air Line Ticket Booking

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Abstract:

The Python-based Airline Ticket Booking System is a software application designed to simplify and automate the process of booking airline tickets. This project aims to provide a user-friendly interface for customers to search for flights, view available options, and make reservations efficiently. The system incorporates various features and functionalities to enhance the ticket booking experience. It leverages Python's capabilities to interact with a database and integrate essential components such as flight information, customer details, and payment processing. The system also utilizes external APIs to fetch real-time flight data, ensuring accurate and up-to-date information for users.

Keywords: *Flight Search, Ticket Reservation, Seat Selection, Payment Processing, Booking Management, Flight Notifications, Admin Panel.*

Voting System Through Online

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Abstract:

The primary goal of our online voting system is to ensure a highly secure and trustworthy platform for all participants. To achieve this, we have implemented state-of-the-art security features that go beyond traditional login credentials. Each user is assigned a unique identification code, adding an extra layer of protection to their account. This unique ID generation system helps safeguard the user's identity and ensures the integrity of the voting process. Our stringent security measures also allow administrators to efficiently verify user information, thereby ensuring that only eligible voters can participate in The elections With a user-friendly and interactive interface, our online voting portal strives to enhance the overall voting experience. The system's simple design allows voters to navigate effortlessly through the platform, selecting their preferred candidates with just a few clicks. The user interface has been carefully crafted to accommodate voters of all ages and technical backgrounds, promoting inclusivity and widespread participation in the democratic process. Furthermore, our system excels in managing and organizing voting events and election details.

Administrators have access to a comprehensive dashboard that enables them to oversee the entire process efficiently. They can effortlessly create, schedule, and manage voting events, ensuring smooth and well-organized elections. By providing administrators with comprehensive control, our online voting system empowers them to uphold the principles of transparency, fairness, and accountability. A significant feature that sets our system apart is the inclusion of an intelligent chatbot.

Keywords : *Secure, trustworthy, integrity, stringent, strives, democratic, dashboard*

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Currency Converter

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Abstract:

This abstract introduces a currency converter program developed in Python, designed to assist users in converting between different currencies accurately and efficiently. The program utilizes up-to-date exchange rates to provide reliable and real-time currency conversion. The currency converter program is a valuable tool for individuals, businesses, and travelers who frequently engage in international transactions or need to compare currency values. By leveraging Python's flexibility and powerful libraries, the program offers a userfriendly interface and reliable results. The currency converter's reliance on real-time exchange rate data ensures that users receive accurate and up-to-date conversion results. It maintains connectivity with reputable financial data sources, automatically fetching the latest exchange rates. This aspect makes the converter highly reliable and valuable for financial professionals, international travelers, and businesses engaged in cross-border transactions.

Keywords: *Python program, exchange rates, conversion tool, international transactions, accurate results*

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Library Management System

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Abstract:

The purpose of Library Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with. Library Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

Keywords: *python, library, reduces manual work, publications, book details*

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Number Guessing Game

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Abstract:

The number guessing game is a python project that provides an interactive and entertaining experience for users to test their guessing skills. The objective of the game is to correctly guess a randomly generated number within a specified range. The project incorporates various concepts of programming and user interaction. It employs the random number generator function to generate a secret number, and the user is prompted to enter their guesses. The program provides feedback to the user after each guess, indicating whether the guess is too high or too low. To enhance the user experience, the game includes a limited number of attempts for each session. This adds an element of challenge and encourages players to strategize their guesses effectively. Additionally, the program keeps track of the number of attempts made by the user and provides a score based on their performance. The Number Guessing Game also offers customizable features, allowing users to set their preferred range of numbers or adjust the difficulty level according to their preferences.

Through the use of conditional statements and loops, the program ensures a smooth and interactive gameplay experience. Overall, the Number Guessing Game is an engaging Python project that combines random number generation, user input handling, and conditional logic to create an enjoyable guessing game. It serves as an excellent opportunity for individuals to practice their programming skills while having fun in the process.

Keywords: *Loops, random numbers, programmer defined function*

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Paper ID: ICCIASH-2023/A56

BUS RESERVATION SYSTEM

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Abstract:

A bus reservation system is a mobile or web software solution designed to provide customers with a personalized easy-to-utilize user experience for booking and purchasing tickets online. It stores customers personal data records, scheduled routes frequent trips, drop points, and other information. It provides a facility which is used to reserve seats and cancellation of reservation and different types of route enquiries used on securing quick reservations. Bus reservation system is a software application that allows users to book bus tickets online. It provides a convenient way for passengers to search for available buses, select their desired seats, and make reservations without the need to visit a physical ticket counter. Here are some key features and components typically found in a bus reservation system:

Bus Management: *The system manages information about various buses, including bus routes, schedules, available seats, and fares.*

Keywords: *ticket booking, reservation, seat selection, bus management.*

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Paper ID: ICCIASH-2023/A57

Typing Tutor

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Abstract:

The aim of this project is to develop a typing tutor program using the Python programming language. The typing tutor will assist users in improving their typing speed and accuracy through a console-based interface. The program will provide users with random words or sentences to type and will evaluate their performance based on speed and accuracy metrics.

The typing tutor will be implemented using Python's built-in functionalities and modules. The program will prompt the user to type a given text and record the start time. Upon completion, the program will calculate the typing speed by dividing the number of words typed by the timetaken. Additionally, the program will measure the typing accuracy by comparing the user's input with the original text. To achieve these functionalities, the project will utilize several key components. First, the program will employ the 'datetime' module to record the start and end times accurately. It will also utilize string manipulation techniques to split the typed text into words for calculating the typing speed. Moreover, the program will implement a character-by-character comparison to determine the typing accuracy. The typing tutor project can be further extended and enhanced to cater to various user requirements.

Keywords: calculating speed, typing accuracy, typing speed

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Paper ID: ICCIASH-2023/A58

DATA ANALYSIS TOOLS

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Abstract:

In today's data-driven world, organizations are inundated with vast amounts of data from various sources. The ability to effectively analyze and interpret this data has become critical for making informed decisions and gaining a competitive edge. To address this need, we present an advanced data analysis tool that empowers users to extract meaningful insights from complex datasets with ease and accuracy. Our integrated data analysis tool boasts a user-friendly interface designed to cater to both seasoned data analysts and novices. Leveraging cutting-edge data visualization techniques, the tool allows users to explore data intuitively, uncover patterns, and identify trends through interactive graphs, charts, and dashboards.

Keywords: *help individual organization, microsoft excel,python.*

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Paper ID: ICCIASH-2023/A59

Study of student login registration system- Analyze It's Working and

Convey

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Abstract:

The student login registration system is an essential component of educational institutions, providing a secure and efficient way for students to create accounts, log in, and access personalized academic information. It streamlines student authentication, allowing seamless access to digital register by providing personal details, which are securely stored and used for verification. Upon login, students can access services like course registration, grades, schedules, and communication with instructors and peers. This system ensures data privacy, enhances security, and improves the overall learning experience.

Keywords: *student login registration system, educational institutions, secure, efficient, create accounts, log in*

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Paper ID: ICCIASH-2023/A60

Countdown Timer-It's Working and Usage.

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Abstract:

The countdown timer in Python is a programming feature that allows you to create a timer that counts down from a specified time to zero. It is commonly used in applications where time-based events or actions need to be triggered after certain duration.

The basic structure of a countdown timer involves setting an initial time value, typically in seconds, and then decrementing this value at regular intervals until it reaches zero. During this countdown, you can perform various tasks or actions based on specific conditions or events. Once the countdown reaches zero, the loop terminates, and the "Countdown complete!" message is displayed. You can modify this abstract implementation according to your specific requirements, such as integrating it into a larger program or adding additional functionality. A countdown timer is a widget that has been designed to count down from a specific date or number to display the beginning or end of a particular event/offer/moment. Using a countdown timer, it is incredibly easy to keep pace with all the events, modifications, celebrations, etc. To a great extent, the countdown timers are used in digital marketing, in sales, in promotional campaigns, in e-shops, etc.

Keywords: *countdown timer, Python, loop*

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Paper ID: ICCIASH-2023/A61

Slot Booking System for COVID-19 Vaccination

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Abstract:

The COVID-19 pandemic has highlighted the importance of efficient vaccination strategies in controlling the spread of the virus. To streamline the process of administering vaccines, an automated slot booking system can play a vital role. The slot booking system provides users with an intuitive interface to search for available slots based on location, date, and time preferences. It incorporates real-time data from vaccination centers and updates the availability of slots accordingly. Users can register their personal information, including name, age, and contact details, to facilitate appointment bookings. The system ensures data security and privacy by implementing necessary encryption and access control measures.

Administrators are equipped with a separate interface to manage and monitor the slot availability, appointment schedules, and user registrations. They can modify and update the database, add new vaccination centers, and generate reports on the system's performance. The system also includes automated reminders and notifications to remind users about their upcoming appointments and any changes in the schedule.

Keywords: *COVID-19 vaccination, slot booking system, real-time updates, online platform, equitable access, resource allocation, efficiency.*

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Paper ID: ICCIASH-2023/A62

Easy Trade - Shopping Website

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Abstract:

An online shopping system that permits a customer to submit online orders for items and/or services from a store that serves both walk-in customers and online customers. The online shopping system presents an online display of an order cut off time and an associated delivery window for items selected by the customer. The system accepts the customer's submission of a purchase order for the item in response to a time of submission being before the order cut off time. The online shopping system does not settle with a credit supplier of the customer until the item selected by the customer is picked from inventory but before it is delivered. Therefore, the customer can go online and make changes to the order. In addition, available service windows are presented to the customer as a function of customer selected order and service types and further, the order picking is assigned in accordance with a picker's preference. When ordering goods, many shopping systems provide a virtual shopping cart for holding items selected for purchase. Successive items selected for purchase are placed into the virtual shopping cart until a customer completes their shopping trip. Virtual shopping carts may be examined at any time, and their contents can be edited or deleted at the option of the customer. Once the customer decides to submit a purchase order, the customer may print the contents of the virtual shopping basket in order to obtain a hard copy record of the transaction.

Keywords: *credit supplier, virtual shopping, purchase order*

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Paper ID: ICCIASH-2023/A63

Voting system management by GUI

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MOHAMMAD IBRAHIM

SAYYAD FARAZ AHMED

MOHAMMAD AHMED

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Abstract:

The given Python code implements a simplified voting system with a GUI using Tkinter. It allows 10 voters to participate and choose between 2 candidates. Voters must meet age, nationality (Indian), and residency (Hyderabad) requirements. The GUI prompts voters for their details and verifies their eligibility. After voting, the system updates the candidate vote counts and prevents duplicate voting. At the end, it displays the final results and declares the candidate with the most votes as the winner. The code enhances user experience with informative pop-up messages. Overall, it provides a basic framework for a voting system. customizable for specific needs.

Keywords: *Python code, GUI, Tkinter*

*Corresponding Author: Mohammad Areeb Ruafi

Paper ID: ICCIASH-2023/A64

Volume Controller System using Hand Tracking

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Abstract:

The purpose of this project is to discuss volume control using a hand tracking recognition system in which we are using hand gestures as the input to control the system. The main goal of hand tracking is to create a system that can identify human hand gestures. We use the same input as the information for controlling the device & by using real-time gesture recognition, specific users can control a computer by using hand gestures in front of a video camera linked to a computer.

We are developing a hand tracking volume controller system with the help of OpenCV, and Python. OpenCV module is basically used in this implementation to control the gestures. It uses the web camera to record or capture images or videos and accordingly on the basis of the input, the volume of the system is controlled by this application. The main function is to increase and decrease the volume of the system by using our hand gestures. Therefore, people will not have to learn machine-like skills which consumes most of the time. This type of hand tracking system provides a natural and innovative modern way of nonverbal communication. This system can be controlled by hand gestures without any use of input devices such as keyboard and mouse.

Keywords: *Hand tracking, hand gesture, OpenCV-Python, volume controller*

*Corresponding Author: Ajay Nayak

Paper ID: ICCIASH-2023/A65

Number Guessing Game

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Abstract:

This program titled 'NUMBER GUESSING GAME' this is a PYTHON based GUI program implements a Number Guessing Game, where the player is provided with set of Rules/Instructions, later the player needs to guess the number between 1 and 100. The program provides hints to the player based on whether the guess is higher or lower than the actual number. The player gets 10 points for each play, but points get depleted for every wrong guess. The game ends when the player either guess the number correctly or loses all the points. The program also displays the number of guesses made by the player, the time taken to guess the number and the final score.

To create a guessing game, we need to write a program to select a random number between 1 and 10. To give hints to the user, we can use conditional statements to tell the user if the guessed number is smaller, greater than or equal to the randomly selected number.

Keywords: *PYTHON, GUI program*

*Corresponding Author: Sreeja

Paper ID: ICCIASH-2023/A66

Password Generator - In Python

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Abstract:

We know that passwords are a real security threat. To keep your account safe and prevent your password from being hacked we have to make our password hard enough that nobody can guess. It is a tool that generates passwords based on the given guidelines that we set to create an unpredictable strong password for our accounts. The objective of this project is to create a password generator using python. The password generator project will be build using python modules like Tkinter, random, string, pyperclip.

In this project, the user has to select the password length and then click on the "Generate Password" button. It will show the generated password below. If the user clicks on the "Copy To Clipboard" button, then it will copy the password automatically. This article uses a mixture of numbers, alphabets, and other symbols found on the computer keyboard to form a n-character password which is unpredictable and cannot easily be memorized. Here we are importing the array module and also the random module because we'll need to generate random choices in the list of alphabets, digits or special characters. And hence we're then generating a password that follows the characteristics of a strong password.

Keywords: *security threat, pyperclip, Tkinter*

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Paper ID: ICCIASH-2023/A67

Calculator

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Abstract:

The Calculator App Module is a Python project developed to provide users with a versatile and efficient calculator application. The module offers a user-friendly interface and focuses on performing essential mathematical operations such as addition, subtraction, multiplication, and division. The Calculator App Module utilizes Python's programming capabilities to execute basic arithmetic operations accurately and quickly. Through a simple and intuitive user interface, users can input numerical values and select the desired operation to be performed. The module incorporates robust algorithms that ensure precise calculations, providing users with reliable results. In addition to the four fundamental operations, the Calculator App Module includes features that enhance the user experience. Error handling mechanisms are implemented to prevent unexpected crashes and provide informative error messages when invalid inputs or mathematical exceptions occur. The module also supports decimal numbers and ensures precise calculations even with complex floating-point values. The Calculator App Module is designed to be easily integrated into other Python projects or used as a standalone calculator application. Its modular structure allows for scalability and extensibility, enabling users to add more functionalities in the future.

Keywords: *security threat, pyperclip, Tkinter*

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Paper ID: ICCIASH-2023/A68

A program on stock market and predictions

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Abstract:

The stock market is a complex and dynamic system that involves the buying and selling of shares in publicly traded companies. Predicting stock market prices is a challenging task due to various factors such as market trends, economic indicators, company performance, and investor sentiment. In recent years, machine learning and data analysis techniques have been widely used to analyze historical stock market data and make predictions about future price movements. In this project, we aim to develop a Python program for stock market prediction using machine learning algorithms. The program will utilize historical stock market data, such as price, volume, and other relevant indicators, to train a predictive model. The trained model will then be used to make predictions on future stock prices.

Keywords: *Data Collection, Model Training, Feature Selection*

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Paper ID: ICCIASH-2023/A69

Abstract of Students Registration Form for Python Program

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Abstract:

The Students Registration Form for Python Program is an application designed to streamline the process of enrolling students in a Python programming course. The form serves as an efficient and user-friendly interface for students to provide their personal and academic information, facilitating a smooth registration process.

This code represents a simple registration system for students. It consists of two classes: Student and Registration System. The Student class defines a student object with attributes such as name, age, and grade. The RegistrationSystem class manages a list of students and provides methods to register a student and save the student data to a CSV file. The program starts by creating an instance of the RegistrationSystem class. It then presents a menu with three options: submitting a registration, saving the student data to a file, or quitting the program. If the user chooses to submit a registration, they are prompted to enter the student's name, age, and grade. The registration information is then stored in a Student object and added to the list of students in the RegistrationSystem instance.

If the user chooses to save the student data to a file, they are prompted to enter a filename. The student data, including the header row, is then written to a CSV file using the csv module. The program continues to loop until the user chooses to quit by entering '3'.

Keywords: *Python Program, CSV file, Registration System*

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Paper ID: ICCIASH-2023/A70

Snake V/S Block Game-GUI

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Abstract:

The Snake v/s block Game is a classic arcade game that challenges players to navigate a snake through a block, collecting food items while avoiding collisions with the snake's own body and the boundaries. The game utilizes tkinter's graphical user interface capabilities to provide an interactive and gaming experience. The graphical elements, such as the snake, food items, and game board, are rendered using tkinter's canvas widget. The game can be co-operated by using keyboard input to control the snake's movement, which allows players to guide the snake in different directions. The Snake Game's main objective is to guide the snake to consume food items which are placed at random places in the game, which increases its length. As the game progresses, the snake becomes longer and snake moves faster too, as the food is consumed by the snake the movement of the snake gets increased this makes the game interesting and challenging. The game also features collision detection, which ends the game if the snake collides with its own body or the boundaries of the game board.

This project demonstrates the principles of game development using Python and tkinter's GUI capabilities.

Keywords: *Snake Game, GUI, tkinter, canvas Python, graphical user interface,*

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Paper ID: ICCIASH-2023/A71

Currency Converter

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Abstract:

The Currency Converter is a Python project designed to provide a user-friendly and efficient solution for currency conversion. It aims to help users convert monetary values between different currencies accurately and in real-time. The project utilizes the power of programming and APIs to fetch the latest exchange rates, allowing users to perform conversions with ease. The Currency Converter project leverages the capabilities of Python programming language and popular libraries like Requests and JSON to establish connections with external APIs. It fetches exchange rate data from reliable sources, ensuring up-to-date and accurate conversion rates. The user interface is implemented using a simple command-line interface (CLI), providing a seamless experience for users to interact with the program.

Keywords: *Currency Converter, Python project, exchange rates, API, command-line interface, real-time conversion, error handling, conversion history*

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Paper ID: ICCIASH-2023/A72

HUMAN ACTION RECOGNITION

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Abstract:

Human action recognition has been an active area of research in computer vision for many years. Recent advances in deep learning and machine learning algorithms have led to the development of more accurate and efficient approaches for recognizing human action from video data. In this paper, we review the state-of-the-art techniques and approaches for human action recognition using computer vision- based methods.

We discuss different feature extraction and representation techniques, as well as different machine learning and deep learning algorithms used for action recognition. We also compare different evaluation matrices used for evaluating the performance of action recognition models. In addition, we present the results of several experiments conducted on public bench mark datasets to evaluate the effectiveness of different approaches for human action recognition. The finding of this study could provide valuable insights into the current state of the art in computer vision- based human action recognition and could guide future research in this area.

Keywords: *computer vision, deep learning, machine learning*

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Paper ID: ICCIASH-2023/A73

HOSTEL LEAVE APPLICATION

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Abstract:

In this fast paced world, everything is going online and technology is making everyone's life simpler and efficient. From buying groceries to booking movie tickets online everything is done online. But in a few places like in hostels and colleges, permission slips are still being used. To make applying for leave or getting a day out pass even more convenient for both the teacher and student and to maintain a proper record of it an application can be made. HoPe is an online platform/application made using Python (with tkinter module) and MySQL (as backend). HoPe is an application where students can log in and apply for leave/permission , specifying details like name, roll number, date of application, date for permission, reason for application, going out time , return time, etc. This copy will go to the teacher/warden and they can have a copy of it and accept or decline the request. This makes it convenient for the hostel faculty to keep a track of the students leaving.

The portal is also a valuable tool for hostel administrators, as it allows them to track leave applications and manage the hostel's leave policy.

Keywords: *MySQL, HoPe, Python*

*corresponding Author : Divya

Paper ID: ICCIASH-2023/A74

Atm Transaction Process

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Abstract:

The ATM Cash withdrawal is a simple application using python programming . It can be defined as actual simple code structure of ATM transactions process to be understood by the user . For implementing this project ,we may have to use function but in the mean time for easy coding . From in the ATM program in python we check the total balance , withdrawing the amount, depositing the amount from the account.

- **EXISTING SYSTEM:**
- It is the various operations performed by a system .At the times of past we used go to the particular bank and we used to transfer the money.
- **PROPOSED SYSTEM:**
- In our proposed system there are many advantages so that without going to the bank we can transfer our bank by the online payments like google pay , phone pay , paytm , fam pay , rupay , etc.

Keywords: *ATM, python, phone pay*

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Paper ID: ICCIASH-2023/A75

Getting Saved Wi-Fi Passwords Using - Python

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Abstract:

Usually while connecting with the wifi we have to enter some password to access the network, but we are not directly able to see the password we have entered earlier i.e password of saved network. In this article, we will see how we can get all the saved WiFi name and passwords using Python, in order to do this we will use subprocess module of python. The subprocess module present in Python(both 2.x and 3.x) is used to run new applications or programs through Python code by creating new processes. It also helps to obtain the input/output/error pipes as well as the exit codes of various commands.

It imports the 'subprocess' module, which allows running shell commands from within a Python script. The script uses the 'subprocess.check_output' netsh wlan show profiles' and retrieve the output the output is decoded from bytes to a string using UTF-8 encoding. A list of names 'profiles' is created to store Wi-Fi network names it then iterates over each Wi-Fi network name in 'profiles' list. If a password is found, it is printed along with the corresponding Wi-Fi network name if no password is found, a blank is printed in the password column.

Keywords: *Subprocess, netsh wlan, deco decoded, encod encoding, iterates*

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Paper ID: ICCIASH-2023/A76

Rock Paper Scissors – Challenge The Computer

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Abstract:

The "Rock Paper Scissors" game is a classic hand game played between two individuals. In this project, we aim to implement a Python program that allows users to play the game against the computer. The program will prompt the user to choose either rock, paper, or scissors, and then generate a random selection for the computer. The selected moves will be compared, and the winner will be determined based on the game rules.

The primary objectives of this project are as follows:

1. Develop a user-friendly interface: We will design a simple and intuitive user interface that allows users to input their choice and receive immediate feedback on the result.
2. Implement game logic: The program will include the necessary logic to determine the winner based on the selected moves. Rock beats scissors, scissors beat paper, and paper beats rock.
3. Generate computer's choice: The program will generate a random selection for the computer using Python's random module to simulate an opponent.
4. Loop the game: The program will be designed to allow users to play multiple rounds of the game until they choose to quit.
5. Display scores: The program will keep track of the user's and computer's scores and display them after each round or at the end of the game.

Keywords: *Rock Paper Scissors, user-friendly interface, Loop the game*

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Paper ID: ICCIASH-2023/A77

QR Code Generator

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Abstract:

In today's digital age, the need for quick and convenient methods of sharing information has become increasingly important. QR (Quick Response) codes have emerged as a powerful tool that enables seamless transmission of data through a visually appealing matrix barcode. This abstract explores the concept of a QR code generator, a software or online tool that generates unique QR codes for various applications.

which are two-dimensional barcodes that can be scanned by smartphones and other devices. These codes can contain various types of information, such as website URLs, text, contact details, or even Wi-Fi network credentials.

The purpose of a QR code generator is to simplify the process of creating QR codes without the need for extensive technical knowledge. Users can input the desired content, and the generator will convert it into a unique QR code image. This image can be printed or displayed digitally for others to scan and extract the encoded information.

QR codes have become popular due to their ease of use and versatility. They can be scanned using smartphone cameras or dedicated QR code scanning apps, allowing users to quickly access websites, obtain product information, share contact details, or perform other actions without typing lengthy URLs or manually entering data.

Keywords: *Qr Code, Accessible, Flexibility, Matrix Barcode*

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Paper ID: ICCIASH-2023/A78

Pyfileorganizer: Simplifying File Organization In Python Projects

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Abstract:

PyFileOrganizer provides a convenient solution for automatically arranging and categorizing project files based on customizable rules and patterns. This tool empowers developers to define file organization rules according to their project's specific requirements. By specifying rules based on file types, extensions, naming conventions, or other criteria, PyFileOrganizer automatically sorts and relocates files into designated folders or directories.

This approach eliminates the need for manual file management, saving valuable development time and reducing the risk of misplaced or cluttered files. PyFileOrganizer also offers advanced features such as duplicate file detection and removal, ensuring a clean and optimized file structure. It assists in identifying duplicate files based on various attributes like file content, size, or name, enabling developers to declutter their project directories and optimize storage space.

By leveraging PyFileOrganizer, developers can establish a structured and organized file system within their Python projects, leading to improved code maintainability, easier navigation, and enhanced collaboration. This tool simplifies the file management process, enabling developers to focus on writing quality code while ensuring a clean and efficient project structure.

Keywords: *PyFileOrganizer, Automatic arrangement, Customizable rules, Sorting, Duplicate file detection, Clean file structure, Simplified file management,*

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Paper ID: ICCIASH-2023/A79

Study of Ticket Booking-to Analyse Seamless Navigation and Hassle Free Ticket Booking Experience.

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Abstract:

The Wonderla Ticket booking system is a python based application designed to facilitate the online reservation of tickets for wonderla, A popular amusement park. The system allows users to browse available rides, select the desired number of tickets, and make secure payments for their bookings. It provides an intuitive user interface that enables seamless navigation and a hassle-free ticket booking experience.

The wonderla Ticket booking system offers various features, including:

User Registration and Login: Users can create new accounts or login to their existing accounts to access personalized features. **Ride Selection:** Users can browse through the list of available rides, View their descriptions, and select the rides they wish to experience. **Ticket Reservation:** Users can choose the number of tickets they want to book for each ride and add them to their cart. **Cart management:** Users can manage their selections in their ticket selections in the cart, including adding or removing tickets and updating quantities. **Secure payments:** The system integrates with a secure payment gateway to enable users to make online payments for their bookings.

Keywords: *Ticket booking, User Registration, Ticket Reservation*

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Paper ID: ICCIASH-2023/A80

Simple Dice Rolling Game

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Abstract:

The simple dice rolling game is a two-player game where players take turns rolling a dice. The objective of the game is to achieve the highest total score after a specified number of rounds. The game begins by prompting the players to enter their names. Once the names are provided, the game proceeds with a series of rounds. In each round; the players take turns rolling the dice. During a player's turn, they roll the dice and obtain a random number between 1 and 6. The number rolled represents the player's score for that turn. The scores are accumulated for each player as the game progresses. After completing the specified number of rounds, the total scores of both players are compared. The player with the highest total score is declared the winner. In the case of a tie, the game ends with no winner declared.

The game provides a simple and entertaining way for players to engage in a friendly competition, relying on luck and chance to determine the outcome. The implementation of the game involves functions to simulate dice rolling, calculate scores, and manage the game rounds and player turns. The code prompts the players for their names, displays the dice rolls and scores, and determines the winner at the end of the game. Players can enjoy playing the game by running the code and participating in the dice rolling fun.

Keywords: *dice, Players*

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Vending Machine

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Abstract:

Vending machine is an automated product dispenser which is normally installed in supermarkets, railway stations, offices, schools and various other public areas .Vending Machine as we all know is a machine which can vend different products which is more like an automated process with no requirement of man handling which we normally see in fast moving cities because of fast paced life.

Here the program provides the working of the vending machine. Vending machine is a machine that dispenses merchandise after a customer deposits money.

A vending system program in c is computer software application designed to control the working mechanism of vending machine .This program typically includes functions that allow users to purchase their wanted products from the vending machine, inserting money and getting the bill and change for the given money.

This program also includes features about selecting your product, getting bill. As the time saving and low budget is preferred, the vending machines have been used without any man work.

Keywords: *vending machine, cash, inserting money, products , bill*

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Paper ID: ICCIASH-2023/A82

Electricity Bill

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Abstract:

An electricity billing and penalty system is an important feature of utility company. This system calculates the electricity consumption of a customer, generates a bill and applies penalties for late payments. In python language, such a system can be implemented using various data structures and algorithms.

The system can start by taking input from the user regarding their meter reading for the current month and the previous month. Based on this information, the system can calculate the amount of electricity consumed during the month. The calculations can be done by subtracting the previous reading from the current reading and multiplying it by the rate per unit of electricity.

To implement the penalty system, the system can use an if, elif and else conditions to check if the payment is made on time. If the payment is not made on time, the system can calculate the penalty as a percentage of the outstanding amount. The penalty amount can be then added to the bill, and the final bill can be generated.

Keywords: *electricity billing, penalty system, algorithms*

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Paper ID: ICCIASH-2023/A83

Website Blocker-to Block Anonymous Sites

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Abstract:

In today's digitally connected world, website blockers have emerged as powerful tools to help individuals regain control over their online experiences. These software applications or browser extensions enable users to restrict access to specific websites or categories of websites for designated periods. By customizing their browsing experience, users can combat the constant allure of time-wasting sites and increase their productivity and focus. Website blockers offer several key features, including the ability to whitelist or blacklist websites, schedule restrictions, and implement password protection. These features empower users to tailor their online environment to their specific needs and goals. By blocking access to distracting websites, individuals can enhance their concentration, reduce procrastination, and manage their time more effectively. Moreover, website blockers have a profound impact on mental well-being.

Keywords: *websites, social media, internet, productivity, whitelist, blacklist, procrastination.*

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Paper ID: ICCIASH-2023/A84

PyCalc: A User Friendly Python Calculator

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Abstract:

The Simple Calculator Python program is a user-friendly application that enables basic mathematical calculations. Built using Python's straightforward syntax and mathematical operators, the program provides a convenient and efficient solution for performing arithmetic operations. The calculator program features a simple graphical user interface (GUI) that allows users to input numbers and choose from various mathematical operations, including addition, subtraction, multiplication, and division. It also supports additional operations like calculating square roots and exponentiation. The program utilizes Python's built-in math functions and operators to accurately execute the chosen mathematical operation. It provides real-time results, displaying the outcome of the calculation on the interface.

With its intuitive design and ease of use, the Simple Calculator Python program offers a practical tool for quick calculations and serves as a valuable resource for users in various fields, including education, finance, and everyday life scenarios. Its simplicity and versatility make it accessible to users of all levels of programming proficiency.

Keywords: *Python program, graphical user interface, calculator program*

*Corresponding Author P.Akhiranandan

Paper ID: ICCIASH-2023/A85

Power of Password Generator

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Abstract:

The Password Generator project is a Python application that generates random and secure passwords. It addresses the need for creating strong passwords that are difficult to guess or crack, providing an essential tool for enhancing security in various applications and online services. The project utilizes the random and string modules in Python to generate passwords consisting of a combination of uppercase letters, lowercase letters, digits, and special characters. The user can specify the desired length of the password, allowing for flexibility in generating passwords of different strengths. The password generation algorithm ensures that each character is randomly selected from the available character set, making the generated password highly unpredictable and resistant to brute force attacks. By incorporating a wide range of characters, the password generator increases the complexity of the generated passwords, making them harder to crack. The Password Generator project can be used as a standalone application or integrated into other programs and systems that require secure password generation. It provides a simple yet effective solution for individuals and organizations looking to enhance their password security practices. The project is implemented in Python, a versatile and widely-used programming language, making it accessible to a broad range of users. The code is modular and easily customizable, allowing for future enhancements or integration into larger applications.

Keywords: *Password Generator, characters, Python*

*Corresponding Author: Ravindranathtagoor

Paper ID: ICCIASH-2023/A86

Voice Assistant: The Power of Voice in Your Hands – An AI Revolution

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Abstract:

In recent years, voice assistants have gained significant popularity, revolutionizing the way humans interact with technology. This project aims to develop a voice assistant using the Python programming language, leveraging its powerful libraries and frameworks. The voice assistant will utilize speech recognition and natural language processing techniques to understand and respond to user commands. The system will be designed to perform various tasks, including retrieving information from the web, managing appointments and reminders, playing music, and providing weather updates, among others. By integrating with external APIs and services, the voice assistant will be able to fetch real-time data and deliver accurate and relevant responses. The project will employ Python's speech recognition library to capture and interpret voice inputs, converting them into text. Natural language processing techniques, such as part-of-speech tagging and named entity recognition, will be employed to extract meaningful information from the user's queries. Python's text-to-speech capabilities will be utilized to provide clear and coherent responses in the form of synthesized speech. To enhance the user experience, the voice assistant will be designed with an intuitive interface, allowing users to interact through voice commands effortlessly.

Keywords: *APIs and services, Python, voice assistants*

*Corresponding Author: S. Mahesh Kumar

"Python Reminder Alert: Stay on Schedule!"

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Abstract:-

The provided code implements a simple reminder program in python. It allows users to set reminders for a specified number of minutes. After the elapsed time, a message is printed, and a sound alert is played using the win-sound library. The code uses the time module to introduce delays and the **input () function** to interact with the user.

In more detail, the code begins by importing the necessary modules, time and win-sound, which provide the required functionality for setting reminders and playing sound alerts.

The core functionality of the program is encapsulated in the **set_ reminder function**. This function takes a parameter minutes, representing the duration of the reminder. It converts the provided minutes to seconds and then uses time **.sleep ()** to pause the execution for the specified duration. After the sleep period, a reminder message "Reminder. Time's up!" is printed to the console. Additionally, the **win-sound Beep () function** is called to play a sound alert, producing a beep sound at 1000 Hz for 2 seconds.

The main function serves as the entry point for the program. It first prints a welcome message to the console. Then, it prompts the user to enter the desired number of minutes for the reminder using **input ()**. The user's input is converted to an integer using **int ()** for further processing. Finally, the **set_ reminder function** is called with the user-provided minutes as an argument, initiating the countdown and reminder process.

Overall, the code offers a straightforward way for users to set reminders in minutes. It provides a console-based interface for interaction, ensuring simplicity and ease of use. The combination of time delays, console messages, and sound alerts makes it a practical tool for creating reminders and notifying users when a specified duration has passed.

Keywords: *reminder function, win-sound Beep, code*

Development of A Sudoku Game

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Abstract:

This project focuses on the development of a Sudoku game using python programming language. Sudoku is a popular puzzle game that involves filling a 9*9 grid with numbers from 1 to 9, following specific rules. The objective of this project is to create an interactive and user-friendly Sudoku game that allows players to solve puzzles, provides hints, and validates their solutions. The development process includes the implementation of various key features. Firstly, a graphical user interface is created using python libraries such as Tkinter or Pygame to provide an interactive game interface. The GUI allows users to navigate the Sudoku grid, input numbers, and interact with game functionalities. Secondly, the project involves designing an algorithm for generating Sudoku puzzles. The algorithm ensures that each puzzle has a unique solution and maintains a balance between puzzle difficulty levels. The game also includes features like error checking mechanism validates user inputs, highlighting any incorrect entries. The hint feature assists players by revealing the correct value for a particular cell.

Keywords: *GUI, puzzle generation, error checking, hint generation*

Paper ID: ICCIASH-2023/A89

Simple Quiz Game Using Python

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Abstract:

This program is a simple computer quiz game written in Python. It prompts the player to enter their name and asks if they want to play. If the player agrees, the quiz begins.

The quiz consists of four questions related to computer hardware:

The player is asked about the full form of "CPU" (Central Processing Unit). The player is asked about the full form of "GPU" (Graphics Processing Unit). The player is asked about the full form of "RAM" (Random Access Memory). The player is asked about the full form of "PSU" (Power Supply Unit). For each question, the player's answer is checked. If the answer is correct, the program prints "Correct!" and increments the score by one. Otherwise, it prints "Incorrect!". After answering all the questions, the program displays the player's score as a percentage and provides a congratulatory message if the player answered at least one question correctly. If the player's score is zero, it prints "Better luck next time". Overall, the code implements a basic quiz game to test the player's knowledge of computer hardware components and provides feedback on their performance.

Keywords: *CPU, GPU, quiz game*

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Paper ID: ICCIASH-2023/A90

Birthday Reminder Application: Keeping Track of Special Dates

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Abstract:

The Python Birthday Reminder is a simple yet effective program that helps users remember and keep track of birthdays. Using Python's concise and powerful features, the program offers a streamlined solution to store and manage birthdays, ensuring users never forget to celebrate special occasions.

The program utilizes a user-friendly interface, allowing users to add birthdays, view upcoming dates, and set reminders. It employs date and time functions in Python to calculate upcoming birthdays and generate timely reminders. The program can be easily customized to suit individual preferences, such as sending notifications via email or displaying reminders on the user's desktop.

By leveraging Python's flexibility and ease of use, the Birthday Reminder program provides a convenient solution for users to stay organized and remember important birthdays, fostering stronger relationships and joyful celebrations..

Keywords: *digital library, bar-code, online, offline, identification number, website.*

*Corresponding Author: V.Divyamsh

Paper ID: ICCIASH-2023/A91

Password Generator in python for Enhanced Digital Security

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Abstract:

In today's interconnected digital landscape, the significance of strong passwords cannot be overstated. To address the escalating need for robust passwords, this project introduces Password generator, an innovative password generator designed to enhance online security. This abstract presents an overview of the key features and benefits of password generator Password Generator leverages advanced cryptographic algorithms and randomization techniques to generate highly secure and unique passwords. The generator offers a wide range of customizable options, including password length, character sets, and the inclusion of special symbols. This flexibility enables users to generate passwords tailored to the specific requirements of different online platforms while maintaining a high level of security. The user interface of password generator is intuitive and user-friendly, making it accessible to users of all technical backgrounds. With a simple and straightforward design, users can easily configure their desired password parameters and generate a strong password with a single click. The generated password is immediately displayed, allowing users to quickly copy and use it for their accounts. To ensure that generated passwords are not only secure but also memorable, the password generator incorporates innovative techniques for creating mnemonics and patterns. By employing these methods, users can generate passwords that are easier to remember without compromising security.

Keywords: *Password generating for various digital uses, High level security to access data,*

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QR (Quick Response) Code Generator

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Abstract:

Quick Response (QR) codes seem to appear everywhere these days. We can see them on posters, magazine, ads, websites, product packaging and so on. Using the QR codes is one of the most intriguing ways of digitally connecting consumers to the internet via mobile phones since the mobile phones have become a basic necessity thing of everyone. In this paper, we present a methodology for creating QR codes by which the users enter text into a web browser and get the QR code generated. Drupal module was used in conjunction with the popular libqrencode C library to develop user Interface on the web browser and encode data in a QR Code symbol. The experiment was conducted using single and Multiple lines of text in both English and Thai languages. The result shows that all QR encoding outputs were successfully And correctly generated.

Keywords: *QR code, Quick Response Code, Storage Capacity, Online QR Code Generator.*

Paper ID: ICCIASH-2023/A93

Visualizing and Forecasting Stocks Using Dash

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Abstract:

This Python project focuses on visualizing and forecasting stocks using the Dash framework. The project leverages the power of Dash, which is a Python library for building interactive web applications, to create a user-friendly and dynamic interface for exploring stock market data.

The project involves collecting historical stock market data from reliable sources and processing it to extract relevant information. The data is then visualized using various interactive charts and graphs, allowing users to explore and analyse the stock market trends. The visualizations include line charts, candlestick charts, and other forms of data representation to provide a comprehensive view of stock performance over time.

In addition to visualizations, the project incorporates forecasting techniques to predict future stock prices. Various forecasting algorithms, such as moving averages, ARIMA, or LSTM models, can be implemented to generate predictions. The forecasted data is then displayed alongside historical data, enabling users to make informed decisions and identify potential investment opportunities.

Keywords: *Dash framework, reliable sources, ARIMA, or LSTM*

*Corresponding Author: D. Charan Teja

Paper ID: ICCIASH-2023/A94

Machine Translation Using API

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Abstract:

Machine translation using an API (**Application Programming Interface**) in Python allows for the integration of machine translation services into Python applications. By leveraging APIs provided by machine translation platforms, developers can easily incorporate translation capabilities into their Python projects. This enables the automated translation of text or speech between different languages. Python's versatility and extensive libraries make it a suitable language for interacting with machine translation APIs. By making API requests, developers can send source text and receive translated output in a streamlined manner. This abstraction simplifies the process of integrating machine translation functionality and expands the possibilities for multilingual applications and services.

Keywords: *Machine translation, API (Application programming interface).*

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Paper ID: ICCIASH-2023/A95

Stock Price Prediction Based On Various Machine Learning Algorithms

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Abstract:

The stock market is a complex and dynamic environment ,making accurate stock price prediction a challenging task. This python project focuses on developing a stock price prediction system using various machine learning algorithms .By leveraging historical stock market data and applying different algorithms ,the project aims to forecast future stock prices and assist investors in making informed decisions.

The project starts by collecting historical stock price data, typically obtained from financial databases or APIs. The data is preprocessed and prepared for analysis ,ensuring it is in a suitable format for modeling .Multiple machine learning algorithms are employed to build predictive models for stock price forecasting. These algorithms can include linear regression, decision trees ,random forests ,support vector machines[SVM] ,or deep learning models such as recurrent neural network[RNN] OR long short-term memory [LSTM]networks .Each algorithm is training on the historical data using a portion for training and another for validation and testing.

keywords: *Deep learning, Feature selection, Historical data technical indicators.*

*Corresponding Author: J.Varnika

Paper ID: ICCIASH-2023/A96

Mobile Store Management System

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Abstract:

Mobile store management system is a python-based project. The main module includes in this project is sells module which manages the functionality of sells, stock is normally used for managing stocks, customers, contains all the functionality related to customers, payment manages the functionality, Brands has all the features of brands & Mobile module manages the functionality of mobile.

keywords: *Mobile payments, Total new and stocks, records of Bill..*

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Paper ID: ICCIASH-2023/A97

Using ChatGPT Web Scraping to Fully Automate Web Scraping

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Abstract:

This project aims to develop an automated web scraping tool using Python, specifically leveraging the BeautifulSoup library and the Requests library, to extract data from websites and save it in a CSV (Comma-Separated Values) file format. The objective is to streamline the process of collecting information from websites by utilizing the power of the ChatGPT language model. The implemented system will automate the steps involved in web scraping, including sending HTTP requests, parsing HTML content, and extracting relevant data. By integrating ChatGPT with web scraping techniques, users can interact with the model to specify the target website and the data they wish to extract. The system will then employ Python's requests library to retrieve the website's HTML content, and BeautifulSoup will be employed to parse the HTML and extract the desired data. Finally, the extracted data will be formatted and stored in a CSV file for easy access and analysis. This project aims to provide a user-friendly and efficient solution for automating web scraping tasks, empowering users to quickly gather data from websites without the need for extensive programming knowledge.

keywords: *Web scraping, automation, beautiful Soup, requests library.*

*Corresponding Author: Kp.Venkat Sai

Paper ID: ICCIASH-2023/A98

Bill Management System Using Python

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Abstract:

The Bill Management System using Python is a user-friendly software application designed to automate bill management tasks. It simplifies the process of creating, storing, and tracking bills and invoices for individuals and businesses. Users can input bill details, such as customer information, purchased items, quantities, prices, and taxes/discounts. The system calculates the total amount accurately and stores bill information in a database for easy retrieval. It allows users to search, filter, and generate printable or downloadable bill invoices. The system also provides reports and summaries for financial analysis. With user authentication and access control, it ensures data security and privacy. The Bill Management System streamlines administrative tasks, saves time, reduces errors, and improves overall efficiency for bill management.

keywords: *Invoices, automation, user-friendly, bill creation, bill tracking, accuracy.*

*Corresponding Author: Md Shoeb Akhtar

Budget Management System Using Python

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Abstract:

Budget management is a critical aspect of personal finance and organizational planning. Effectively managing a budget helps individuals and businesses allocate resources, track expenses, and make informed financial decisions. This abstract presents a Python-based budget management system that provides functionalities such as depositing funds, withdrawing funds, and checking the current balance. The system allows users to interact with their budget through a simple menu-driven interface. The code implements a Budget class that encapsulates the budget-related operations and provides methods to perform transactions while ensuring the integrity of the budget. The budget management system serves as a foundational tool for individuals and organizations to maintain financial discipline, monitor spending patterns, and achieve their financial goals. It can be further extended and customized to include features like expense categorization, goal setting, and generating financial reports, offering a comprehensive solution for effective budget management.

keywords: *budget management, personal finance, organizational planning, resources allocation, track expenses, financial decisions, Python-based, deposit funds, withdraw funds, current balance, menu-driven interface, Budget class, transactions, financial discipline.*

*Corresponding Author: Naga Nikhith. M

Paper ID: ICCIASH-2023/B01

Guess That Number: A Challenging Game Of Wits

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Abstract:

Python is a high-level, interpreted programming language that was first released in 1991. It is designed to be easy to read and write, making it a popular choice for beginners. Python is an object-oriented language, which means that it uses objects to represent data and methods to manipulate that data.

The code you provided is an example of how Python can be used to implement a simple number guessing game. The program generates a random number between 1 and 100 using the randint () function from the random library. The user is then prompted to guess the number within 10 attempts using the input () function. The program then compares the user's guess with the generated number and provides hints if the guess is higher or lower than the actual number. If the user guesses the number correctly within 10 attempts, the program displays a congratulatory message. If the user fails to guess the number within 10 attempts, the program displays a message indicating that the user has lost the game. There are many other games that can be implemented using Python programming such as tic-tac-toe, hangman, and snake.

Keywords: Python, interpreted programming language. function

*Corresponding Author: N.Pramod

Paper ID: ICCIASH-2023/B02

Voting System for Election

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Abstract:

The Voting System Implementation in Python is a program that allows individuals to participate in a simulated voting process. The system prompts users to enter their names and ages, and if eligible, they can vote for their preferred party from a list of options. The code handles multiple voters and stores the names and corresponding party choices. After the voting process concludes, the system displays the names of voters and the party they voted for. Additionally, the code determines the party with the highest number of votes and declares it the winner. The implementation showcases concepts such as user input handling, conditional statements, dictionary manipulation, and result analysis.

Keywords: *Voting system, Python, Simulation, Eligibility, User input, Conditional statements, Dictionary, Result analysis.*

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Paper ID: ICCIASH-2023/B03

File Transfer Using Python

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Abstract:

Python is a widely used programming language with a vast array of libraries and modules that can be used to build a variety of applications. One such application is file transfer, which can be implemented using Python's built-in socket module. In this abstract, we will discuss the basic concepts and techniques involved in building a file transfer application using Python. We will explore the different protocols that can be used for file transfer, including TCP and UDP, and how to implement them in Python. We will also look at some of the challenges involved in building a robust and secure file transfer application, such as data integrity and encryption, and how to address them using Python's cryptography library. Finally, we will provide an overview of some of the existing file transfer tools built using Python and their key features. By the end of this abstract, readers will have a solid understanding of how to build a file transfer application using Python and the different tools and techniques available to them.

Keywords: *Python, TCP and UDP*

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Paper ID: ICCIASH-2023/B04

Implementation of Currency Converter

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Abstract:

The currency converter application built using Python provides a convenient way to convert currency amounts between different currencies. The application utilizes an API, specifically the Open Exchange Rates API, to fetch the latest exchange rates. By entering the amount to be converted, the currency to convert from, and the currency to convert to, the application retrieves the corresponding exchange rates and performs the currency conversion calculation.

The currency converter application built using Python provides a convenient way to convert currency amounts between different currencies. The application utilizes an API, specifically the Open Exchange Rates API, to fetch the latest exchange rates. By entering the amount to be converted, the currency to convert from, and the currency to convert to, the application retrieves the corresponding exchange rates and performs the currency conversion calculation.

Keywords: *API, Open Exchange Rates*

*Corresponding Author: B.Rohit

Paper ID: ICCIASH-2023/B05

Implementation of Temperature Converter

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Abstract:

The purpose of this project is to develop a temperature converter application that allows users to easily convert between Celsius and Fahrenheit temperatures. The application was developed using Python programming language and the Tkinter library for the graphical user interface.

The application's main features include a user-friendly interface that allows users to input a temperature in either Celsius or Fahrenheit, and the application will automatically convert it to the other temperature scale. The application also includes a clear button that allows users to reset the input fields, and an exit button that closes the application.

During the development process, several challenges were encountered, including issues with the formatting of the temperature values and the implementation of the user interface. These challenges were overcome through careful testing and debugging, and the final application is fully functional and user-friendly.

In conclusion, the temperature converter project in Python was a success, and provides an easy-to-use tool for anyone needing to convert temperatures between Celsius and Fahrenheit. Future work could include adding additional temperature scales, such as Kelvin, and implementing more advanced features such as temperature range checking.

Keywords: Tkinter library, Celsius and Fahrenheit, Python

*Corresponding Author: J.Sathvika

Paper ID: ICCIASH-2023/B06

Implementation of Count Down Timer Using Python

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Abstract:

An abstract countdown timer refers to a timer that counts down from a specified duration to zero, without any specific context or purpose associated with it. It is a general-purpose timer that can be used in various applications, such as mobile apps, websites, presentations, or any situation where a countdown is required.

The abstract countdown timer typically displays the remaining time in a visually appealing format, usually in the form of digits or a progress bar. It may also include additional features like sound effects, animations, or customizable settings depending on the specific implementation

The abstract nature of the countdown timer means that it doesn't have any inherent context or purpose assigned to it. It serves as a versatile tool that can be incorporated into various applications and scenarios based on the developer's or user's needs.

Overall, an abstract countdown timer provides a visual representation of time ticking away, creating a sense of anticipation or urgency as it approaches zero, regardless of the specific application or context in which it is used.

Keywords: *Countdown, Timer Clock, Ticking, Time remaining, Duration, Start, Stop*

*Corresponding Author: S. Ashwitha

Paper ID: ICCIASH-2023/B07

Hotel Management Staff Details Using Python

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Abstract:

Hotel management staff details in Python, you can define a class called Staff Member with relevant attributes and methods. Here's an example implementation: The Staff Member class represents a staff member in the hotel management system. It has three attributes: name, position, and salary. The `_init_` method is used to initialize these attributes when a new staff member object is created. The `display details` method is defined to print the details of a staff member. It simply outputs the name, position, and salary of the staff member. To use the class, you can create instances of Staff Member with different staff members' information and call the `display details` method to show their details. This is a basic example, and you can expand it further by adding more attributes and methods as per your requirements.

Keywords: *Enter Customer Data, calculate restaurant bill, Calculate laundry bill, Calculate game bill, Show total cost, EXIT.*

*Corresponding Author: G.Usha Rani

Paper ID: ICCIASH-2023/B08

Flower Pattern Using Python (Turtle Library)

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Abstract:

This is a python mini project based on the python's build-in Library – “Turtle”, It is a flower Pattern with Rainbow colours reflecting a prism view on the screen. Turtle is vastly used for graphic designing the structures/ patterns for multiple uses. We have many features in this library, which helps us to make things easier and efficient.

Key words: *Flower Pattern, Turtle*

*Corresponding Author: R Harsh

Paper ID: ICCIASH-2023/B09

Password Generator in Python for Enhanced Digital Security

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Abstract:

In today's interconnected digital landscape, the significance of strong passwords cannot be overstated. To address the escalating need for robust passwords, this project introduces Password generator, an innovative password generator designed to enhance online security. This abstract presents an overview of the key features and benefits of password generator Password Generator leverages advanced cryptographic algorithms and randomization techniques to generate highly secure and unique passwords. The generator offers a wide range of customizable options, including password length, character sets, and the inclusion of special symbols. This flexibility enables users to generate passwords tailored to the specific requirements of different online platforms while maintaining a high level of security.

The user interface of password generator is intuitive and user-friendly, making it accessible to users of all technical backgrounds. With a simple and straightforward design, users can easily configure their desired password parameters and generate a strong password with a single click. The generated password is immediately displayed, allowing users to quickly copy and use it for their accounts. To ensure that generated passwords are not only secure but also memorable, the password generator incorporates innovative techniques for creating mnemonics and patterns.

Key words: *Password generating for various digital uses, High level security to access data, Python code for random high security unique password.*

*Corresponding Author: Nimrah Saman

Paper ID: ICCIASH-2023/B10

Contact Book Using Python Programming

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Abstract:

A contact book, also known as an address book or contact manager, is a fundamental tool that helps us keep our contact information organized and easily accessible. In this project, we aim to develop a user-friendly contact book application using the Python programming language. Our goal is to provide users with a convenient and efficient way to manage their contacts effectively. The contact book application will have a simple and intuitive interface, allowing users to perform essential tasks such as adding, viewing, updating, and deleting contact entries. Each contact entry will consist of common fields like name, phone number, email address, and additional notes.

To implement the contact book functionality, we'll leverage various data structures and algorithms. Typically, contacts can be stored in a list, dictionary, or even a database. Furthermore, the application will include a powerful search feature, enabling users to quickly locate specific contacts based on their names or other attributes. These features may include the ability to categorize contacts into groups or tags, import and export contact data, and even integrate with external services such as email clients or messaging applications.

Key words: *address book, contact book,*

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Paper ID: ICCIASH-2023/B11

Guess The Value [using function and importing modules

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Abstract:

This is a mini python project based on importing modules [Random] and functions [Def]. To make it more interesting this are used in a quiz format where marks are allotted for each question. Time module is given to check the duration of a user while attempting a quiz

Key words: *Guess The Value, importing, python.*

*Corresponding Author: Adulla Akhilesh

Paper ID: ICCIASH-2023/B12

To Do List Using Python Programming

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Abstract:

The following python paper “To-do list using python”, demonstrates a program to create a simple to-do list using functions, lists, loops, and conditional statements. In this program, the user is presented with a menu that allows them to perform various actions such as adding tasks, viewing tasks, marking tasks as completed, and exiting the program. The tasks are stored in a list, and the program uses functions to handle each action. The ‘while’ loop keeps the program running until the user chooses to exit.

Key words: *To Do, python, demonstrate*

*Corresponding Author: Adireddy Madhu Varshini

Resume Builder Application

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Abstract:

The Python RESUME BUILDER APPLICATION is a software application designed to simulate the functionality ease of faster resume. It provides a user-friendly interface for users to make selections, process and receive their desired details. The program is implemented using the Python programming language, incorporating object-oriented principles and data structures. The Resume Builder program begins by presenting the user with a corresponding details. The user can then input their order of details. The program validates the input and prompts the user in a formatted resume. The Python incorporates error handling mechanisms to handle scenarios such as insufficient payment, invalid item selection, or out-of-stock items. It ensures that the user is notified of any issues and provides clear instructions for resolution. The Resume Builder Application program utilizes modular code structure to enhance maintainability and extensibility. It separates the core logic of the resumes into different classes as per User Interface. Each class is responsible for handling specific functionalities, promoting code reusability and separation of concerns. Overall, the Resume Builder Application provides a reliable and intuitive way for users to interact with a faster and efficient resume, mimicking the experience of a physical one. It demonstrates the application of programming concepts such as user input validation, detail processing and error handling. The program can be further expanded and customized to accommodate additional features or adapt to specific business requirements.

Key words: *To Do, python, demonstrate*

*Corresponding Author: Thalla Solomon Raj

Paper ID: ICCIASH-2023/B14

Traffic Lights Control System: A Python Implementation

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Abstract:

Traffic control systems are vital for maintaining order and safety on roads. Efficiently managing traffic lights is crucial to optimize traffic flow and minimize congestion. This abstract presents a Python program that simulates a traffic lights control system. The program utilizes object-oriented programming principles and implements a simple state machine to emulate the behavior of traffic lights at an intersection.

Key words: *Control System, Traffic Lights.*

*Corresponding Author: Muthyala Rajashekar

Paper ID: ICCIASH-2023/B15

Identification of Fundamental Data Structures for Grocery Store Management System

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Abstract:

The Grocery store management system is a python-based application designed to facilitate effective management of grocery items. It can provide a efficient and user-friendly interface for organizing their grocery lists. Using the list data structure with features of adding items, removing items, updating items, editing items, viewing the grocery items and etc. The system utilizes a List, Set, and Dictionary for easy manipulation. To maintain some fixed data system utilizes the Tuple. The system enables users to easily add items to their grocery list by specifying the item name. Removal of items from the list is also straightforward, as users can input the name of the item they wish to remove. The system ensures data integrity by validating user input and providing appropriate feedback messages. The program employs a menu-driven approach to facilitate user interaction. Upon launching the system, users are presented with a menu that offers options to perform various actions. These options include adding an item, removing an item, and viewing the current grocery list, and quitting the program. This design enhances user experience and ensures a smooth workflow. The grocery management system prioritizes simplicity and convenience, aiming to streamline the grocery management process. Instead of maintain manual records, it simplifies task of maintaining and tracking grocery lists, ensuring that users can easily access and update their items as needed.

Key words: *Grocery items, prices, document file, List, Dictionary.*

*Corresponding Author: A.Jabilli

Paper ID: ICCIASH-2023/B16

Guess a Number Using Python

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Abstract:

This abstract presents a Python program designed to engage users in a number guessing game. The program prompts the player to think of a number within a specified range and proceeds to guess the number through a series of iterations. Using a combination of user feedback and binary search algorithm, the program intelligently narrows down the range of possible values until it accurately guesses the number. The program utilizes key concepts such as conditional statements, loops, and user input/output to facilitate an interactive experience. It employs a divide-and-conquer approach to efficiently determine the target number, maximizing the chances of success while minimizing the number of guesses required. The main objective of the program is to showcase the implementation of fundamental programming concepts in Python and illustrate the use of algorithms to solve problems. It encourages logical thinking and introduces the concept of efficient search strategies to find a desired value within a given range. By playing the game, users can not only enjoy the challenge of trying to stump the program but also gain insights into the power of algorithms in solving real-world problems. This program serves as an engaging introduction to programming and algorithmic thinking for beginners and enthusiasts alike, fostering computational thinking and problem-solving skills.

Key words: *statements, loops, guessing game.*

*Corresponding Author: Kaila Anirudh

Paper ID: ICCIASH-2023/B17

Converting Emoji into Text

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Abstract:

Nowadays, emoticons are frequently used to show our emotions, but many of us don't know their actual meaning, so to solve this problem, let's create a GUI using Python. The emoji module in Python can be used to translate emoticons and emoji into text. Emoji in text strings can be precisely replaced and removed with this tool.

To convert emoji in the input text string to text, you can split the input text and then perform token matching of each word in the input with the emoji dictionary keys. If a token is found in the dictionary keys, you can replace the emoji token with the corresponding text.

Key words: *Emoji, GUI.*

*Corresponding Author: Mallekedi Yamini

Countdown Timer: A Timekeeping Solution for Precise Task Management

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Abstract:

The Python Countdown Timer is a versatile and efficient tool that enables users to accurately measure and manage time for various tasks and activities. This abstract provides an overview of the key functionalities and features of the countdown timer implemented using Python programming language. The countdown timer is designed to be user-friendly and customizable, allowing users to set specific durations for their countdowns and receive visual and auditory alerts when the timer reaches zero. Through the utilization of Python's built-in modules, such as time and tkinter, the countdown timer offers a robust solution for precise time management. The abstract discusses the main components of the countdown timer, including the user interface, timer logic, and alert system. The user interface is developed using the tkinter module, providing a graphical representation of the countdown timer with an intuitive and responsive design. Users can easily input the desired duration for their countdown and initiate the timer with a single click. The timer logic ensures accurate timekeeping by utilizing the time module, which allows for precise measurement of time intervals. The countdown timer continuously updates the remaining time and provides real-time feedback to the user through the graphical interface. To enhance user experience and ensure timely awareness, the countdown timer incorporates an alert system. When the timer reaches zero, users are alerted through various methods, such as visual cues, sound notifications, or even system-wide notifications. This flexibility enables users to tailor the alert system to their preferences and requirements.

Key words: *tkinter timer*

*Corresponding Author: Chiluka Dhanraj

Paper ID: ICCIASH-2023/B19

A Quiz Game in Python

LAKKIREDDY VARSHITHA

KOYYA LAKSHITHA

PANUGANTI ASHRITHA REDDY

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Abstract:

This is a very simple text-based game in python. It a small quiz which you can make for yourself as well or your friends. We do not need to import any modules for this game which makes it easier.

Key words: *quiz, Python.*



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Paper ID: ICCIASH-2023/B20

Electricity Bill Calculator

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Abstract:

The Python-based Electricity Bill Calculator is a software application designed to automate the calculation of electricity bills for residential or commercial users. This calculator utilizes user-provided data such as electricity consumption, tariff rates, and additional charges to accurately estimate the total amount due. The calculator begins by prompting the user to input their electricity consumption for the billing period, usually measured in kilowatt-hours (kWh). It then retrieves the applicable tariff rates from a predefined database or allows users to enter their specific rates. The calculator applies these rates to the electricity consumption to calculate the base cost of electricity. In addition to the base cost, the calculator incorporates various additional charges that may be associated with electricity bills, such as taxes, surcharges, and fixed fees. Users have the flexibility to input these charges manually or utilize default values provided by the application. Once all the necessary inputs are provided, the calculator processes the data and generates a comprehensive summary of the electricity bill. The summary includes a breakdown of the base cost, additional charges, and the final total amount payable. This information is displayed in a clear and concise manner, facilitating easy interpretation. Furthermore, the Electricity Bill Calculator offers features for analysing and visualizing electricity consumption patterns over time. Users can view graphical representations of their consumption data, helping them identify trends, make informed decisions regarding energy usage, and potentially reduce their electricity costs. The Python-based Electricity Bill Calculator provides a user-friendly interface, making it accessible to individuals with varying levels of technical expertise.

Key words: *Python, electricity bill, calculator, energy consumption, tariff rates, additional charges, graphical visualization, open-source.*

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Paper ID: ICCIASH-2023/B21

SPEED TYPING TEST: Assessing Typing Proficiency and Performance

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Abstract:

The Speed Typing Test is a widely used tool for evaluating an individual's typing proficiency and performance. This abstract provides an overview of the purpose, methodology, and potential applications of speed typing tests. The primary objective of a speed typing test is to measure an individual's typing speed, accuracy, and overall efficiency. The test typically involves typing a given text passage within a specified time limit, capturing both the number of words typed and the number of errors made. These metrics are then used to calculate the typing speed, often expressed in words per minute (WPM), and the accuracy rate. The methodology for conducting a speed typing test involves presenting participants with standardized text passages and utilizing specialized software or online platforms that record typing inputs. The test results can be obtained in real-time, providing immediate feedback to the participant and the examiner. Commonly assessed factors include typing speed, error rate, typing rhythm, and consistency. Speed typing tests have various practical applications. They are frequently employed in educational settings to assess students' typing skills and progress, as well as to determine their eligibility for computer-related courses or professions. Moreover, speed typing tests are used in recruitment processes to evaluate candidates' typing abilities for positions that require extensive computer usage, such as administrative roles or data entry jobs. Additionally, speed typing tests can be utilized for personal improvement and self-assessment. Individuals seeking to enhance their typing skills can regularly take these tests to monitor their progress and identify areas for improvement, such as accuracy, typing speed, or specific key combinations. In conclusion, the Speed Typing Test is a valuable tool for evaluating typing proficiency and performance.

Key words: *Speed typing test , typing proficiency , performance, typing speed, accuracy, efficiency, text passage, time limit, words per minute(WPM), error rate, typing rhythm.*

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Paper ID: ICCIASH-2023/B22

Security Passcode Generator

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Abstract:

In today's interconnected digital landscape, the significance of strong passwords cannot be overstated. To address the escalating need for robust passwords, this project introduces Password generator, an innovative password generator designed to enhance online security. This abstract presents an overview of the key features and benefits of password generator Password Generator leverages advanced cryptographic algorithms and randomization techniques to generate highly secure and unique passwords. The generator offers a wide range of customizable options, including password length, character sets, and the inclusion of special symbols. This flexibility enables users to generate passwords tailored to the specific requirements of different online platforms while maintaining a high level of security. The user interface of password generator is intuitive and user-friendly, making it accessible to users of all technical backgrounds. With a simple and straightforward design, users can easily configure their desired password parameters and generate a strong password with a single click. The generated password is immediately displayed, allowing users to quickly copy and use it for their accounts. To ensure that generated passwords are not only secure but also memorable, the password generator incorporates innovative techniques for creating mnemonics and patterns. By employing these methods, users can generate passwords that are easier to remember without compromising security. This feature aims to address the common challenge of password fatigue and reduce the likelihood of users resorting to weak or reused passwords. Password Generator emphasizes the importance of protecting sensitive information. It does not store or transmit any user data or generated passwords.

Key words: *Password generating for various digital uses, High level security to access data, Python code for random high security unique password.*

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Paper ID: ICCIASH-2023/B23

Library Management System

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Abstract:

The Library Management System (LMS) plays a vital role in organizing and automating various activities within a library. This abstract introduces a Python-based Library Management System that aims to streamline the management of library resources and enhance the user experience for both librarians and patrons. The proposed system leverages the power and versatility of Python programming language to develop a comprehensive and efficient solution. It incorporates key functionalities such as cataloguing, circulation, user management, and reporting, all seamlessly integrated into a user-friendly interface. The cataloguing module enables librarians to create, update, and manage the library's collection. It allows for efficient searching and categorization of resources using various parameters like title, author, genre, and ISBN. The circulation module facilitates smooth borrowing and returning of books, managing due dates, and generating fine calculations if necessary. Additionally, the system offers reservation features to manage high-demand items effectively. User management functionality provides librarians with the ability to create and manage user accounts, including registration, issuing library cards, and maintaining user profiles. It also supports personalized recommendations and notifications to keep users engaged with the library. A Library Management System (LMS) is a crucial tool for modern libraries to efficiently manage their resources, streamline operations, and enhance user experiences. This introduction presents a Python-based Library Management System, highlighting its significance in automating library tasks and improving overall functionality. Libraries serve as repositories of knowledge, housing vast collections of books, journals, multimedia, and digital resources. Managing such extensive collections manually can be a daunting task, leading to inefficiencies, inaccuracies, and user dissatisfaction.

Key words: *Library Management System, ISBN.*

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Paper ID: ICCIASH-2023/B24

Password Generator Using Python

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Abstract:

"Password Generator" project aims to develop a Python application that generates The secure and random passwords based on user requirements. The application provides an intuitive command-line interface where users can specify various parameters such as password length, character types, and additional customization options. The password generation process begins by allowing users to define the desired password length, which can be adjusted according to specific requirements or constraints. The application then provides flexibility in selecting character types to be included in the generated password, including lowercase letters, uppercase letters, digits, and special characters. This ensures that the passwords generated are diverse and resistant to common password cracking techniques. To achieve randomness, the project utilizes the random module in Python, which employs strong algorithms for generating random numbers. By leveraging this module, the application selects characters randomly from the chosen character types and combines them to form the final password string. Additionally, the project implements various customization options to enhance the usability and security of the generated passwords. These options may include excluding ambiguous characters (eg, similar-looking characters) to minimize confusion, avoiding repetitive characters to improve uniqueness, or allowing users to define specific requirements such as including at least one uppercase letter or special character

Keywords: *ommand-line interface, password length, character types, customization options, Randomness, random module, strong algorithms.*

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Paper ID: ICCIASH-2023/B25

Automation of Whatsapp

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Abstract:

In everyday life WhatsApp has become a vital thing to us. For every aspect of our life we are using WhatsApp to send messages and even making calls. Before WhatsApp we used applications like Skype for video calls and calls made by using Internet. Those were used to be complicated but now video calls became very easy. The system also supports scheduled messaging, allowing users to automate the sending messages at specific times or intervals. This feature can be particularly useful for sending reminders or conducting marketing campaigns. This system even includes the download of packages of python. This system takes the mobile number, time and the message to be sent. With these three details it easily sends the messages without any delay. Even when the user is in offline or online. Furthermore, the project emphasizes privacy and security, ensuring that the automation system complies with WhatsApp's policies and guidelines. It employs secure authentication mechanisms and follows best practices to protect user data and maintain the confidentiality of conversions. By automating various tasks and interactions, users can save time, streamline communication, and add additional functionality to their WhatsApp experience. The system promotes efficiency, enables Intelligence automation through python and ensure the privacy and security in all interactions with WhatsApp.

Keywords: *WhatsApp, online, offline, mobile number, packages.*

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Paper ID: ICCIASH-2023/B26

Bank Employee Details Using Python

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Abstract:

The purpose of this Python code is to provide a system for managing bank employee details. It allows users to input information such as employee names, ages, job titles, salaries, and departments. The code then stores this information in an organized manner and provides functionality to view and manage the employee details. This system aims to streamline the management of bank employee information and improve efficiency in maintaining accurate records.

Keywords: *Python code online, Bank Employee.*

*Corresponding Author: B.Rishika

Paper ID: ICCIASH-2023/B27

Graphical Password Authentication

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Abstract:

A graphical password is an authentication system that works by having the user select from images in a specific order. Graphical password authentication is an alternate and yet evolving type of authentication in this current era, it is either recall or recognition based. Users will either reproduce the image or recognize the images which were used or produced during the registration phase. Passwords guard the resources and information by allowing only designated persons to access them. Graphical password is new, trending, and seems to be a very promising method of authentication. It exists as an alternative to the text password. Alphanumeric usernames and passwords are the most common technique put in use. This technique showed some of its advantages over simple text passwords but also with some cons. When it comes to alphanumeric passwords, users either will try to keep a simple strength password that stands a chance to get cracked, but it gets inconvenient for the users to remember the strong strength passwords. Alphanumeric passwords are brute force for hacking. With the graphical password, the user will keep images or points-of-interest of images as a password. The most advanced and secure type of authentication these days is biometric, but it is too expensive to be used by all. Therefore, a graphical password, which is less expensive, secure, and easy to use, can be considered a perfect alternative authentication method.

Keywords: *Graphical Password; Security; Passwords; Graphical Authentication.*

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Paper ID: ICCIASH-2023/B28

Temperature Converter

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Abstract:

The purpose of this project is to develop a temperature converter application that allows users to easily convert between Celsius and Fahrenheit temperatures. The application was developed using Python programming language and the Tkinter library for the graphical user interface. The application's main features include a user-friendly interface that allows users to input a temperature in either Celsius or Fahrenheit, and the application will automatically convert it to the other temperature scale. The application also includes a clear button that allows users to reset the input fields, and an exit button that closes the application. During the development process, several challenges were encountered, including issues with the formatting of the temperature values and the implementation of the user interface. These challenges were overcome through careful testing and debugging, and the final application is fully functional and user friendly. In conclusion, the temperature converter project in Python was a success, and provides an easy-to-use tool for anyone needing to convert temperatures between Celsius and Fahrenheit. Future work could include adding additional temperature scales, such as Kelvin, and implementing more advanced features such as temperature range checking.

Keywords: *digital library, bar-code, online, offline, identification number, website.*

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Paper ID: ICCIASH-2023/B29

Number Guessing Game using Python

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Abstract:

This program titled 'NUMBER GUESSING GAME' this is a PYTHON based GUI program implements a Number Guessing Game, where the player is provided with set of Rules/Instructions, later the player needs to guess the number between 1 and 100. The program provides hints to the player based on whether the guess is higher or lower than the actual number. The player gets 10 points for each play, but points get depleted for every wrong guess. The game ends when the player either guess the number correctly or loses all the points. The program also displays the number of guesses made by the player, the time taken to guess the number and the final score.

To create a guessing game, we need to write a program to select a random number between 1 and 10. To give hints to the user, we can use conditional statements to tell the user if the guessed number is smaller, greater than or equal to the randomly selected number.

Keywords: *Number Guessing Game, Python.*

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Paper ID: ICCIASH-2023/B30

AIM-Currency Convertor

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Abstract:

The Currency Converter is a Python project designed to provide a user-friendly and efficient solution for currency conversion. It aims to help users convert monetary values between different currencies accurately and in real-time. The project utilizes the power of programming and APIs to fetch the latest exchange rates, allowing users to perform conversions with ease. The Currency Converter project leverages the capabilities of Python programming language and popular libraries like Requests and JSON to establish connections with external APIs. It fetches exchange rate data from reliable sources, ensuring up-to-date and accurate conversion rates. The user interface is implemented using a simple command-line interface (CLI), providing a seamless experience for users to interact with the program.

Key words: *Currency Converter, Python project, exchange rates, API, command-line interface, real-time conversion, error handling, conversion history*

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Paper ID: ICCIASH-2023/B31

SNAKE - Multiplayer Intelligent Snake

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Abstract:

This paper aims to bring the fun and simplicity of snake game with some new features. It will include computer controlled intelligent opponents whose aim will be to challenge the human players. It will also have the multiplayer feature that will allow more than one players to play the game over a network. This paper explores a new dimension in the traditional snake game to make it more interesting and challenging. The simplicity of this game makes it an ideal candidate for a minor project as we can focus on advanced topics like multiplayer functionality and implementation of computer controlled intelligent opponents. This game aims to change the way people think of traditional snake gam. It will offer the experience of commercial multilayer games to the player retaining the simplicity of traditional snake game.

Key words: *network, Intelligent.*

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Paper ID: ICCIASH-2023/B32

Speed Typing Test: Assessing Typing Proficiency and Performance

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Abstract:

The Speed Typing Test is a widely used tool for evaluating an individual's typing proficiency and performance. This abstract provides an overview of the purpose, methodology, and potential applications of speed typing tests. The primary objective of a speed typing test is to measure an individual's typing speed, accuracy, and overall efficiency. The test typically involves typing a given text passage within a specified time limit, capturing both the number of words typed and the number of errors made. These metrics are then used to calculate the typing speed, often expressed in words per minute (WPM), and the accuracy rate. The methodology for conducting a speed typing test involves presenting participants with standardized text passages and utilizing specialized software or online platforms that record typing inputs. The test results can be obtained in real-time, providing immediate feedback to the participant and the examiner. Commonly assessed factors include typing speed, error rate, typing rhythm, and consistency.

Key words: *Speed typing test , typing proficiency , performance, typing speed, accuracy, efficiency, text passage, time limit, words per minute(WPM).*

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Paper ID: ICCIASH-2023/B33

Study of Sign up Process Using Python

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Abstract:

The sign up process using Python involves creating a user account by collecting and validating user information such as name, email, password, and other relevant details. The process includes checking if the user already exists, ensuring that the password meets the requirements, and storing the user's information securely. The user is then notified of the successful sign up process, and they can proceed to log in to their account.

Key words: *name, email, password.*

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Paper ID: ICCIASH-2023/B34

Flames Game Using Python

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Abstract:

This program titled 'FLAMES GAME'. This is a PYTHON based game without using any external game libraries like PyGame. The Flames game is a popular love calculator that gained immense popularity in the era of pen and paper games. The Flames game algorithm involves eliminating common characters from the names of two individuals and iteratively counting the remaining characters until only one category remains. The categories include "Friends," "Lovers," "Affection," "Marriage," "Enemies," and "Siblings." Python Flames Game Implementation. The Python program incorporates essential concepts, such as string manipulation, loops, conditional statements, and user input. It demonstrates how these programming elements can be combined to create an engaging and dynamic Flames Game experience. Additionally, it highlights the flexibility of Python, allowing for further enhancements and customization. The Flames Game Python implementation offers a playful and entertaining way for individuals to explore their compatibility with others. It can be utilized in various contexts, such as parties, social gatherings, or simply as a personal amusement tool. By engaging users with its interactive nature and providing instant results, the Flames Game brings an element of excitement and curiosity to the realm of relationships.

Key words: *Flames Game, Python.*

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Paper ID: ICCIASH-2023/B35

Flames Game Using Python

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Abstract:

This program titled 'FLAMES GAME'. This is a PYTHON based game without using any external game libraries like PyGame. The Flames game is a popular love calculator that gained immense popularity in the era of pen and paper games. The Flames game algorithm involves eliminating common characters from the names of two individuals and iteratively counting the remaining characters until only one category remains. The categories include "Friends," "Lovers," "Affection," "Marriage," "Enemies," and "Siblings." Python Flames Game Implementation. The Python program incorporates essential concepts, such as string manipulation, loops, conditional statements, and user input. It demonstrates how these programming elements can be combined to create an engaging and dynamic Flames Game experience. Additionally, it highlights the flexibility of Python, allowing for further enhancements and customization. The Flames Game Python implementation offers a playful and entertaining way for individuals to explore their compatibility with others. It can be utilized in various contexts, such as parties, social gatherings, or simply as a personal amusement tool. By engaging users with its interactive nature and providing instant results, the Flames Game brings an element of excitement and curiosity to the realm of relationships..

Key words: *Flames Game, Python.*

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Paper ID: ICCIASH-2023/B36

Booking of Flight Ticket

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Abstract:

The program is a simple airport ticket booking system. It takes user input for name, gender, destination city, airline, and date of travel. It then checks if the destination city has an airport available for booking. If the city has an airport, the program calculates the ticket cost and applies any discounts based on the date of travel. Finally, it displays the ticket information including the name, gender, destination, airline, and cost. The Flight Booking System is a Python-based software application designed to facilitate the online booking of flights. This system provides a user-friendly interface for users to search, select, and reserve flights based on their preferences. The aim of this project is to streamline the flight booking process by automating various tasks, such as retrieving flight information, checking seat availability, and processing payments.

Key words: *name, gender, destination city, airline*

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Paper ID: ICCIASH-2023/B37

Online Voting System

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Abstract:

The primary goal of our online voting system is to ensure a highly secure and trustworthy platform for all participants. To achieve this, we have implemented state-of-the-art security features that go beyond traditional login credentials. Each user is assigned a unique identification code, adding an extra layer of protection to their account. This unique ID generation system helps safeguard the user's identity and ensures the integrity of the voting process. Our stringent security measures also allow administrators to efficiently verify user information, thereby ensuring that only eligible voters can participate in the elections. With a user-friendly and interactive interface, our online voting portal strives to enhance the overall voting experience. The system's simple design allows voters to navigate effortlessly through the platform, selecting their preferred candidates with just a few clicks. The user interface has been carefully crafted to accommodate voters of all ages and technical backgrounds, promoting inclusivity and widespread participation in the democratic process. Furthermore, our system excels in managing and organizing voting events and election details. Administrators have access to a comprehensive dashboard that enables them to oversee the entire process efficiently. They can effortlessly create, schedule, and manage voting events, ensuring smooth and well-organized elections.

Key words: *name, gender, destination city, airline*

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Paper ID: ICCIASH-2023/B38

Dice Rolling Simulator Game

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Abstract:

The Dice Rolling Simulator Game in Python is a simple yet powerful tool designed to simulate the roll of dice commonly used in table top games, role-playing games (RPGs), and various other gaming scenarios. This abstract provides an overview of the Dice Rolling Simulator Game, its purpose, features, and implementation.

The Dice Rolling Simulator Game is built using the Python programming language and serves as a versatile utility for rolling various types of dice, including the common six-sided dice, as well as dice with any number of sides. The program allows users to input the number and type of dice to roll.

Key words: *Dice Rolling Simulator, Python, game, random number generation, user input, graphical user interface.*

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Paper ID: ICCIASH-2023/B39

IoT Based Pulse Oximeter System

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Abstract:

The Pulse Oximetry instrument developed in this idea nevertheless differs in a number of ways in terms of advantages from comparable gadgets used in healthcare facilities and those available for purchase. The uniqueness of the tools created for this idea is as follows:

- Easier to design, because it uses components commonly used in the learning process, such as: Arduino and Raspberry Pi.
- Easier to use for data collection and measurement for a momentarily measurement (non-continuous measurement)
- Relatively cheaper.

Key words: *Pulse Oximeter System, Raspberry Pi.*

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Paper ID: ICCIASH-2023/B40

Voting System - It's Working

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Abstract:

A voting system is a critical component of any democratic process, whether it is an election of a government, an organization, or a group decision-making process. The mini-voting system presented here is a simple implementation of a voting system that can be used in small-scale elections or decision-making processes. The system provides a platform for voters to cast their votes, and the results are automatically computed and displayed in realtime. The mini-voting system is developed using the python programming language and utilizes basic data structures such as arrays and structures to store and manipulate data. The mini-voting system supports the following features. Multiple candidates: The system allows the creation of multiple candidates for a particular position or issue. Secure Voting: The system ensures secure voting by preventing multiple votes by the same voter. Real-time results: The system provides real time updates of the voting results. User friendly interface: The system provides a user-friendly interface for voters to cast their votes and for administrators to manage the system. The mini-voting system is a useful tool for small-scale elections or decision-making processes that require a simple and efficient voting system. The implementation of the system in the python programming language makes it highly portable and easy to integrate with other software applications.

Keywords: *Multiple candidates, Secure Voting, Real-time results, User friendly interface*

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Paper ID: ICCIASH-2023/B41

Contact list management system

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Abstract:

The Contact List Management System is a Python project designed to help users to organize and manage their contact information. It provides a user-friendly interface through which users can add, edit, delete, and search for contacts. The system offers more efficient approach to store and retrieve contact details, making it convenient for individuals and businesses to maintain an organized database of their contacts. This project uses Python concepts such as file handling, data structures, and functions to implement the contact management functionality. It helps to store contact information, allowing users to store multiple attributes for each contact, including name, phone number, email address, and additional notes. The system offers a interface where users can choose from various options, including adding a new contact, viewing existing contacts, editing contact details, searching for contacts based on specific criteria, and deleting contacts. With the Contact List Management System, users can easily maintain an up-to-date and organized contact list, eliminating the need for manual record-keeping and reducing the chances of losing or misplacing contact information.

Keywords: *contacts, phone number, email address*

*Corresponding Author: B. Likith Reddy

Paper ID: ICCIASH-2023/B42

Time Table Generator

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Abstract:

A plan, otherwise called a timetable, is an organized arrangement that frames when certain occasions, exercises, or undertakings will happen over a predefined period. A timetable typically refers to a plan for when classes will be held and which subjects will be taught on which days in an educational setting. Schedules are utilized in different settings, including schools, colleges, public vehicle, and working environments. They provide a method for effectively organizing and managing time, ensuring that resources are utilized effectively and that individuals are aware of when they are expected to be available or when events are scheduled. Creating a timetable can be a difficult task that requires careful consideration of factors like the availability of individuals, the resources available, and the need to balance competing priorities. Plans should likewise consider any requirements or constraints. Before this program was created, people used to take a xerox of the created timetable and paste or pin them on the notice boards or out of the respective classrooms which is a complete waste of paper and time also, as we have to go check every time. This program will make our work easy and helps us to save paper. The user is promoted to select the required day of a week (Mon, Tue, Wed, Thur, Fri, Sat) and the time also (in hrs and mins).

Keywords: *timetable, xerox*

*Corresponding Author: Ch. Preetham

QR Code Generator

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Abstract:

QR codes (Quick Response codes) have risen in popularity in recent years due to their ability to encode and exchange data effectively. This abstract presents a QR code generator, a useful utility that allows users to create QR codes for a number of reasons. The QR code generator makes use of strong algorithms to encode a wide range of data types, including URLs, text, contact information, and more.

The QR code generator features a simple interface that allows users to change the appearance and functionality of the created codes. Users can customise the size, colour, and background of the codes to suit their preferences and branding needs. In addition, the generator provides error correction, ensuring robust and reliable reading of QR codes even if they are partially obscured. This abstract describes a tiny effort aimed at creating a QR code generator. The project's goal is to create a simple and efficient method for encoding and exchanging data through the use of QR codes. The generator will have a user-friendly interface that will allow users to enter various data kinds, such as URLs, text, or contact information, and it will generate associated QR codes. In addition, the project will provide error correction capabilities to enable reliable code scanning. The generated QR codes are simply downloadable and shareable across platforms, allowing for seamless data transfer and accessibility. This little project provides a useful tool for people and organisations looking for a simple QR code generation solution. QR, or "Quick Response" law, is a 2D matrix law that was built with two goals in mind: it must hold more data than 1D barcodes and it must be decrypted quickly using any handheld device such as phones. QR legislation offers large data storage capacity, fast scanning, omnidirectional reading, and numerous other benefits such as mistake correction (so that damaged law can also be successfully read) and various types of performances.

Keywords: *QR codes, QR code generator, Data encoding, Error correction, Data exchange*

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Smart Anti-Theft System

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Abstract:

Stealing the vehicle is the major threat to car or bike vehicle owners. now a days it is increasing day by day. If not recovered soon stolen vehicle is generally sold or even burned, if the resale price is considered to be too low .an antitheft vehicle security has been developed to mitigate the problem. This system controlled as micro controller, RFID (radio-frequency identification), GPS-GPM module and tilt sensor. The car /bike will be started with RFID.If an unauthorized person wants to open the door of the vehicle, it will ask for correct RDIF. The tilt sensor is used to measure any breaking of windows or doors and movement of the vehicle, a message will be sent to the owner 's mobile containing location of the car/bike via GPS-GPM module. The system gives also an alarm furthermore the connection to the fuel injector to the bike /car deactivated to prevent the unauthorized start of the vehicle any how antitheft security system enhance the chances of recovering the bike /car. These days vehicle robbery higher than any time, it has gotten to be fundamental to give a vehicle a super security with the main solid hostile to burglary gadgets. Vehicle focal locking framework guarantees the best ensure to secure your vehicle from many burglary cases. It is a vehicle security gadgets that offers fantastic insurance to your vehicle. This framework couldn't demonstrate to give complete security openness to the vehicle in the even burglary.

Keywords: *Vehicle theft, Anti-theft security system, GPS-GSM module*

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Password Generator

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Abstract:

A password generator is a software tool that creates random or customized passwords for users. It helps user create stronger passwords that provide greater security for a given type of access. In today's digital landscape, where online threats and data breaches are on the rise, maintaining strong and unique passwords has become crucial for safeguarding sensitive information. This abstract presents Secure Pass, an advanced password generator designed to enhance online security by generating highly secure and unique passwords. The generator incorporates a variety of character sets, including uppercase and lowercase letters, digits, and special symbols, to create complex and unpredictable passwords. A password generator is a tool that creates a unique password. That is often used in partnership with a password management solution, allowing you to create strong password and store them in a digital vault. This GUI based Password Generator supplies the most basic method for generating a solid password for the individuals. In short, this job just concentrates on producing arbitrary passwords. In order to run the task, you must have set up python, on your PC. This a basic GUI Based system, specially composed for the beginners. Password Generator in python with sourcecode is complementary to download. Use for education purpose only! For the project demo, look at the picture slider listed below. It additionally presents with an aesthetic color-coded system which indicates the stamina of the password, beginning from Very Weak to superb password strength. After creating a random password, the system presents it in the clipboard where the user can copy and paste easily.

Keywords: *Password generator, Online security, Strong passwords*

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Bus Reservation System

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Abstract:

Travelling is a large growing business across all countries. Bus reservation system deals with maintenance of records of details of each passenger. It also includes maintenance of information like schedule and details of each bus. We observed the working of busreservation system and after going through it, we get to know that there are many operations, which they have to do manually. It takes a lot of time and causing many errors while data entry. Due to this, sometimes a lot of problems occur and they were facing manydisputes with customers. To solve the above problem, and further maintaining records of passenger details, seat availability, price per seat, bill generation and other things, we are offering this proposal of computerized reservation system . A BUS RESERVATION SYSTEM is a mobile or web software solution designed to provide customers with a personalized easy-to-utilize user experience for booking and purchasing tickets online. It stores customers personal data records, scheduled routes frequent trips, drop point and other information. It provides a facility which is used to reserve seats and cancellation of reservation and different types of route enquiries used on securing quick reservations.

Keywords: *User Registration, Booking Confirmation*

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Study of Grade Calculator

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Abstract:

Abstract for a python code that calculates a student's final grade based on their marks in assignments, projects and final exams. The program takes input from the user for marks obtained in assignments, projects and final exams. It then validates the input and calculates the weighted average of the marks, where assignments are worth 30%, projects are worth 30% and the final exams worth 40%. The program then outputs the final grade based on the weighted average. The program also checks for invalid inputs and provides an error message if necessary.

Key words: *python code, invalid inputs*

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Booking of Wonderla Ticket

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Abstract

The Wonderla Ticket booking system is a python based application designed to facilitate the online reservation of tickets for wonderla, A popular amusement park. The system allows users to browse available rides, select the desired number of tickets, and make secure payments for their bookings. It provides an intuitive user interface that enables seamless navigation and a hassle-free ticket booking experience.

The wonderla Ticket booking system offers various features, including:

1. **User Registration and Login:** Users can create new accounts or login to their existing accounts to access personalized features.
2. **Ride Selection:** Users can browse through the list of available rides, View their descriptions, and select the rides they wish to experience.
3. **Ticket Reservation:** Users can choose the number of tickets they want to book for each ride and add them to their cart.
4. **Cart management:** Users can manage their selections in their ticket selections in the cart, including adding or removing tickets and updating quantities.
5. **Secure payments:** The system integrates with a secure payment gateway to enable users to make online payments for their bookings.
6. **Booking Confirmation:** Once the payment is successful, users receive a booking confirmation with a unique booking ID and the details of their reservation.
7. **Booking History:** Users can view their past bookings, including the ride details, booking dates, and payment information.

Keywords: *Booking History, Secure payments*

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Paper ID: ICCIASH-2023/B49

Password Generator

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Abstract

The Password Generator project is a Python application that generates random and secure passwords. It addresses the need for creating strong passwords that are difficult to guess or crack, providing an essential tool for enhancing security in various applications and online services. The project utilizes the random and string modules in Python to generate passwords consisting of a combination of uppercase letters, lowercase letters, digits, and special characters. The user can specify the desired length of the password, allowing for flexibility in generating passwords of different strengths.

The password generation algorithm ensures that each character is randomly selected from the available character set, making the generated password highly unpredictable and resistant to brute force attacks. By incorporating a wide range of characters, the password generator increases the complexity of the generated passwords, making them harder to crack.

The Password Generator project can be used as a standalone application or integrated into other programs and systems that require secure password generation. It provides a simple yet effective solution for individuals and organizations looking to enhance their password security practices.

Keywords: *AI Generator, Human Generator*

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Reservation Of Flight Ticket

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Abstract:

The program is a simple airport ticket booking system. It takes user input for name, gender, destination city, airline, and date of travel. It then checks if the destination city has an airport available for booking. If the city has an airport, the program calculates the ticket cost and applies any discounts based on the date of travel. Finally, it displays the ticket information including the name, gender, destination, airline, and cost.

The Flight Booking System is a Python-based software application designed to facilitate the online booking of flights. This system provides a user-friendly interface for users to search, select, and reserve flights based on their preferences. The aim of this project is to streamline the flight booking process by automating various tasks, such as retrieving flight information, checking seat availability, and processing payments. The system is implemented using Python programming language along with relevant libraries and frameworks. It utilizes web scraping techniques to fetch real-time flight data from various airline websites and presents it to the user in an organized manner.

Keywords: *Airport ticket booking system, Flight booking, Online booking*

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Paper ID: ICCIASH-2023/B51

**Smartwatch: Enhancing Lifestyle Through Sleep Tracking, Step Counting,
And Alarm Features**

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Abstract:

Smartwatches have emerged as innovative wearable devices that integrate various features enhance personal well-being and promote a healthier lifestyle. This abstract focuses on three key functionalities of a smartwatch: sleep tracking, step counting, and alarm functions. Sleep tracking is a vital feature of modern smartwatches, enabling users to monitor their sleep patterns and gain valuable insights into their sleep quality. By employing advanced sensors and algorithms, smartwatches can analyze sleep stages, including deep sleep, light sleep, and REM sleep. Sleep duration and efficiency metrics provide users with an understanding of their sleep habits, helping them identify areas for improvement and make informed decisions to enhance their overall sleep health. Step counting is another essential aspect of smartwatches, serving as a fitness companion and encouraging users to adopt an active lifestyle. Equipped with accelerometers and gyroscopes, smartwatches accurately measure the number of steps taken throughout the day. This feature allows individuals to set daily activity goals, track their progress, and promote regular physical activity.

.Keywords: *Accelerometers, gyroscopes, smartwatch, fitness*

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Voting Machine -Dominion Voting Systems

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Abstract:

This project proposes the design and implementation of a new voting machine that is more secure, reliable, and accessible than existing voting machines. The proposed machine will use a combination of hardware and software security features to protect the integrity of the vote, and it will be designed to be easy to use for voters of all abilities. The project will also include a comprehensive testing and evaluation plan to ensure that the machine meets all security and usability requirements. The voting machine will be equipped with advanced technologies such as biometric authentication, encrypted data transmission, and tamper-resistant hardware to ensure the integrity and confidentiality of the voting process. The system will be designed to prevent any unauthorized access or tampering of the votes, maintaining the highest level of security throughout the entire process. The user interface of the voting machine will be intuitive and easy to navigate, catering to voters of all ages and backgrounds. It will provide clear instructions and feedback to voters, ensuring that the voting process is transparent and understandable. The proposed voting machine will also incorporate a robust audit trail mechanism, allowing for post-election verification and auditing.

Keywords: *Electronic voting, Voting machine, Ballot casting, Election technology, Digital democracy, Secure voting system,*

A Project Report On Whatsapp Time Scheduling

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Abstract:

The main aim of the project is to add a feature to WhatsApp messenger application by which we can send a message at desired time. By using time scheduling we can make the person we want to receive message at particular time set by the user. This project is implemented by using Pywhatkit package of python. Pywhatkit is a Python library with various helpful features. It's easy-to-use and does not require you to do any additional setup. Currently, it is one of the most popular libraries for WhatsApp and YouTube automation. New updates are released frequently with new features and bug fixes. The main objective of this project is to add time scheduling feature in WhatsApp messenger. This feature is already available in other messenger applications like Telegram, Viber but we want to introduce this feature in WhatsApp as it is widely used. This feature allows us to send important messages at the time we want without forgetting. This feature allows you to schedule a message in advance so that you don't miss out on sending important messages on time, simply because you may forget. Schedule WhatsApp feature can be quite useful in ensuring that users do not forget to send birthday or anniversary wishes on time.

Keywords: *WhatsApp, Time scheduling, Calendar integration, reminder, group coordination, mobile application.*

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Study of Digital Library - Word and Line Counting in Python

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Abstract:

The ability to count words and lines in a file is a common requirement in various text processing tasks. This abstract presents a Python-based solution for counting words and lines within a file. The implementation utilizes built-in functions and libraries, ensuring simplicity and efficiency. To count the words in a file, the program reads the contents of the file and splits it into individual words. Additionally, the program can exclude certain types of words, such as common stop words or punctuation marks, to provide more accurate word count statistics. For line counting, the program reads the file and iterates through each line, incrementing a counter for each encountered line. It considers newline characters or line breaks as indicators of a new line. These projects help us to count the various words and lines in a file. Readers have difficulty to read and write count the various words and lines in a file. The proposed solution demonstrates the versatility of Python, leveraging its expressive syntax and powerful standard libraries. This abstract serves as a foundation for programmers looking to develop efficient and reliable word and line counting functionality in their Python projects.

Keywords: *Digital library, online, website.*

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Paper ID: ICCIASH-2023/B56

Study of Digital Library – VOICE ASSISTANTS

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Abstract:

Voice assistants have become increasingly popular in recent years, providing users with a convenient and hands-free way to interact with technology. This abstract presents an overview of the Python code implementation for a voice assistant, highlighting its core functionalities and features. The Python code for a voice assistant primarily relies on two key components: speech recognition and text-to-speech conversion. Speech recognition enables the assistant to convert spoken words into text, while text-to-speech conversion allows the assistant to respond audibly to the user's queries or commands. In conclusion, the Python code implementation for a voice assistant involves integrating speech recognition and text-to-speech conversion libraries to enable user interaction through voice commands. By combining these components and implementing the necessary logic, a functional voice assistant can be created with a wide range of applications and functionalities. Key words: Digital library, online, website.

Keywords: *Digital library, online, website.*

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Creation of Artificial Intelligence using python

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Abstract:

This paper presents the creation of artificial intelligence (AI) using Python programming language. The development of AI systems has gained significant attention due to their potential to solve complex problems and improve various aspects of human life. Python, with its simplicity and versatility, has become a popular choice for AI development. The process of creating AI involves several key steps. First, the paper discusses the importance of data collection and preprocessing. Quality and relevant data play a crucial role in training AI models, and Python offers a wide range of libraries and tools for data manipulation and cleaning. Next, the paper explores various machine learning algorithms and techniques available in Python. These include supervised learning algorithms like decision trees, support vector machines, and neural networks, as well as unsupervised learning algorithms like clustering and dimensionality reduction. Furthermore, the paper highlights the significance of model training and evaluation. Python provides powerful libraries such as Tensor Flow, Keras, and scikit-learn that facilitate the training and evaluation of AI models. The iterative process of training, evaluating, and fine-tuning the models is essential for achieving optimal performance. Overall, this paper demonstrates that Python serves as an excellent tool for creating AI systems, providing a rich set of libraries, algorithms, and frameworks that enable developers to build intelligent applications across a wide range of domains.

Key words: *Tensor Flow, Scikit-learn, AI systems, algorithms, and frameworks*

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Python-based Website Blocking Program for Enhanced Internet Management

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Abstract :

In today's digital age, it is crucial for both individuals and organisations to regulate website access and internet distractions. As the internet plays a pivotal role in our daily lives, managing online distractions and enforcing internet usage policies has become increasingly important. In this context, we present a Python-based program for website blocking, which allows users to control access to specific websites effectively. This program uses the operating system's host file manipulation tools to force specific website URLs to point to unreachable IP addresses, blocking access to those websites. The program functions without a hitch and offers a comfortable command-line interface (CLI) for configuration and management by operating in the background as a script. As a result, users can effortlessly add or remove websites from the blocklist, view the current blocked websites, and customize various settings to suit their specific needs. Whether aiming to enhance productivity, limit distractions, or enforce internet usage policies, our program offers a convenient solution for effective website blocking. We believe that this Python-based website blocking programme is a useful resource for people, businesses, and other institutions trying to control online distractions and increase internet productivity. Moreover, users can effectively control access to specific websites on their computer. It provides a convenient way to enhance productivity, limit distractions, or enforce internet usage policies.

Keywords: *Python, website blocking, host file modification, command-line interface, configuration management, background execution, internet management.*

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Contact Diary– A GUI Based System

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Abstract:

Contact Diary is an efficient and user-friendly Graphical User Interface (GUI) application developed in Python for contact management. With its intuitive interface and emphasis on simplicity, users can seamlessly store, organize, and retrieve contact information. The application leverages Python's object-oriented programming paradigm and popular libraries like Tkinter to create a flexible and extensible system. Key features include an intuitive interface, support for adding, editing, and deleting contacts, flexible search options, customizable contact fields, and efficient data storage and retrieval mechanisms. Contact Diary is a valuable tool for professionals, businesses, and individuals seeking streamlined contact management, showcasing the power and versatility of Python in developing practical applications. (Keywords: contact management, GUI application, Python, user-friendly, search options, customizable fields, data storage)

Key words: *Python, GUI application, contact management, Tkinter, PyQt, user-friendly, data storage, data retrieval.*

Python Puzzler: The Ascending Challenge

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Abstract:

The Ascending Order Challenge is a Python programming puzzle that focuses on sorting a given list of numbers in ascending order using various techniques and algorithms. Sorting is a fundamental operation in computer science and is essential for organizing data in a meaningful way. This abstract provides an overview of the puzzle, its objectives, and possible strategies to solve it. The puzzle begins with a randomly generated list of integers. The goal is to devise an algorithm in Python that arranges the elements of the list in ascending order. Participants are encouraged to explore different sorting algorithms and techniques, considering factors such as efficiency, simplicity, and code readability. To solve the Ascending Order Challenge, programmers can employ a variety of approaches. One common method is the Bubble Sort algorithm, which iteratively compares adjacent elements and swaps them if they are in the wrong order. Another popular option is the Quicksort algorithm, which recursively divides the list into smaller sublists based on a chosen pivot element. Python provides built-in sorting functions, such as `sorted()` and `sort()`, which can be utilized to solve the puzzle efficiently. These functions leverage optimized sorting algorithms under the hood, allowing programmers to focus on high-level logic rather than implementing sorting algorithms from scratch. Additionally, participants can explore more advanced techniques like Merge Sort, Heap Sort, or even the Python-specific Timsort algorithm, which is the default sorting algorithm used in the `sorted()` function. Understanding the pros and cons of different sorting algorithms is crucial for choosing the most suitable approach based on the problem's constraints and input size. The Ascending Order Challenge not only tests participants' knowledge of Python programming but also enhances their problem-solving skills and algorithmic thinking. It emphasizes the importance of selecting appropriate data structures, understanding time and space complexity, and evaluating trade-offs between different sorting methods. In conclusion, the Ascending Order Challenge is an engaging Python programming puzzle that encourages participants to explore various sorting techniques to arrange a given list of numbers in ascending order.

Key Words: *ascending order, variety of algorithms, problem-solving skills.*

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Pycodemaster

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Abstract:

It consists of several components, including the creation of coding challenges, educational tools, and a platform for practising and understanding Python programming ideas. Users can participate in coding challenges, receive educational materials, and profit from a platform that allows them to practise and improve their Python abilities. The project's goal is to empower individuals by providing them with the tools and resources they need to improve their Python programming skills. PyCodeMaster tries to accompany learners on their journey to becoming effective Python programmers, whether through coding assignments, rich educational content, or a dedicated practise platform.

Keywords: *python programming ,coding challenges ,rich educational content.*

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Paper ID: ICCIASH-2023/B62

MP3 MUSIC AUDIO PLAYER– A GUI Based System

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Abstract:

This code is a music player application implemented in Python using the pygame, tkinter, ttkthemes, and PIL libraries. It provides a graphical user interface (GUI) for playing, pausing, resuming, stopping, and navigating through music files in a specified directory. The GUI also displays the album art associated with the currently selected song, if available. The code initializes the necessary libraries, defines functions for controlling the music playback and volume, and creates the GUI elements such as buttons, labels, and menus. It also includes a function to update the displayed album art based on the selected song. The code utilizes various libraries to load and play music, handle GUI components, and extract album art from music files' ID3 tags.

Key words: *music player, Python, pygame, tkinter, ttkthemes, PIL, GUI, play, pause, resume, stop, navigate, music files*

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Paper ID: ICCIASH-2023/B63

Online Voting System Using Facial Recognition

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Abstract

This project proposes a new authentication technique for online voting systems using facial recognition of the voter, as the current voting systems in India (secret Ballot paper and Electronic Voting Machines) have limitations and are not safe or secure. Online voting has not yet been implemented in India, and voters face difficulties such as long queues and distributed polling booths, resulting in many people missing their chance to vote. In addition, ineligible voters may cast fraudulent votes, creating further issues. Therefore, this project aims to present an effective and reliable online voting system. The proposed online voting system incorporates two levels of security in the voting process. The first level is verification of a unique username using a password, and the second level is facial recognition or face matching. The security level of the system is enhanced by a new application method for each voter, resulting in a more secure and reliable voting process. The user authentication process is improved by adding face recognition to an application, which identifies authenticated users and prevents fraudulent votes.

Key words: *Electronic Voting Machines, secret Ballot paper, fraudulent votes.*

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Enhancing Media Playback and Management

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Abstract:

The Python program for MX Video Player is designed to leverage the robust features and functionalities of the MX Video Player application, enhancing the media playback and management experience. By utilizing the MX Player API and Python's capabilities, the program provides users with an efficient and user-friendly interface for playing, organizing, and manipulating media files. With the program, users can enjoy a wide range of features. It supports seamless playback of various video and audio formats, including high-definition content, subtitles, and multiple audio tracks. The program allows users to create and manage playlists, enabling them to easily group and access their favorite videos or music tracks. It also incorporates a subtitle integration feature, enabling users to search, download, and sync subtitles with their media files. Advanced video editing and control options are available within the program, allowing users to adjust playback speed, change aspect ratios, control brightness and volume, and more. It includes a built-in file explorer, enabling users to browse and locate media files stored on their system. The program boasts an intuitive and visually appealing interface, ensuring a userfriendly experience. By combining the power of the MX Video Player with the flexibility of Python, this program offers a comprehensive solution for media playback and management.

Keywords: *Media, website, Playback, video player.*

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Ordering food by scanning QR on seats in theatre

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Abstract:

In today's fast-paced world, convenience is paramount, even during leisure activities such as attending theatre programs. This abstract presents an innovative solution for enhancing the ordering process for food in theatre programs by leveraging QR code scanning technology. Traditional methods of ordering, such as waiting in long queues or relying on intermediaries, often result in delays and inconvenience. To address these challenges, we propose a system where each seat in the theatre is equipped with a unique QR code. By simply scanning the QR code using their smartphones, patrons gain access to a user-friendly ordering interface. This interface offers a digital menu showcasing a wide variety of food options available in the theatre. Users can browse the menu, select their desired items, and even customize their orders according to their preferences. Once the order is finalized, payment options are provided to complete the transaction effortlessly.

Key words: *QR code scanning, ordering food, theatre programs, convenience, digital menu, customization, contactless ordering, and customer experience.*

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Paper ID: ICCIASH-2023/B66

Rock Paper Scissors Game using PYTHON and GUI

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Abstract:

The game of Rock Paper Scissors is a widely played hand game involving two participants. This abstract describes an implementation of the Rock Paper Scissors game using the Python programming language and a graphical user interface (GUI). Our implementation utilizes Python's GUI library, including Tkinter, to offer an engaging and visually appealing interface for users to enjoy the game. The GUI comprises interactive buttons enabling the player to make their choice (rock, paper, or scissors), a designated section to display the computer's selection, and another section to present the game's outcome. The game's logic is constructed using conditional statements and random number generation in Python. The computer's choice is determined randomly, while the player's selection is obtained by interacting with the GUI buttons. We have developed a function to compare the choices and declare the winner based on the rules of Rock Paper Scissors. The GUI enhances user interaction by displaying relevant messages and updating the interface according to the game's progress. Following each round, the game provides feedback on the result, indicating whether the player won, lost, or tied with the computer. Moreover, the game keeps track of the overall score, which is visibly presented in the GUI for both the player and the computer. Our implementation offers players a visually pleasing and user-friendly way to enjoy the timeless Rock Paper Scissors game.

Keywords: *Rock Paper Scissors, Python, GUI, Tkinter, Game Development, User Interface, Hand Game.*

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MESSAGE ENCODE AND DECODE

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Abstract:

Message encoding and decoding are fundamental operations in data communication and information security. This abstract presents a Python program that demonstrates how to encode and decode messages using various encoding techniques, including ASCII, Base64, and Caesar cipher. The Python program utilizes built-in libraries and functions to simplify the encoding and decoding process. It provides a user-friendly interface for inputting messages and selecting the desired encoding method. The program ensures flexibility and ease of use by allowing users to switch between different encoding techniques effortlessly. To encode a message, the program prompts the user to enter the message and select an encoding method. It then applies the chosen encoding technique to convert the message into its encoded representation. The encoded message is displayed as output, ready for transmission or storage. For decoding a message, the program requests the user to input the encoded message and select the corresponding decoding method. It applies the chosen decoding technique to retrieve the original message from the encoded input. The decoded message is then presented to the user, ensuring accurate retrieval of the original information.

Keywords: *Encoding, Decoding, Message, Python, Programming, ASCII encoding, Base64 encoding, Caesar cipher encoding, Data communication, Information security,*

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Fake logo detection system using python and GUI

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Abstract:

Counterfeit logos have become increasingly prevalent in today's digital age, posing a significant challenge for brand protection and consumer trust. To address this issue, we propose a fake logo detection system based on advanced image analysis and machine learning techniques. The system aims to identify manipulated or counterfeit logos by analyzing their visual characteristics and comparing them with genuine logos. Our approach begins with the acquisition of a diverse dataset of logo images from various sources, including company websites, product packing, and online marketplaces. Preprocessing techniques are applied to enhance image quality and remove noise, ensuring optimal analysis. Feature extraction methods capture key aspects of logos, such as color histograms, texture patterns, and shape descriptors, which contribute to their distinctiveness. The system employs a supervised learning approach, where a training phase is conducted using the dataset of genuine and manipulated logos. During training, a classification algorithm learns to differentiate between authentic and fake logos by leveraging the extracted features. This enables the system to generalize and identify suspicious logos based on learned patterns. In the detection phase, new logo images are compared against the trained model. The system applies classification algorithms to determine the likelihood of forgery, flagging logos that exhibit significant deviations from expected patterns or display suspicious characteristics. Confidence scores or probabilities of forgery are assigned to identified logos to aid in evaluation. In conclusion, our fake logo detection system provides a valuable tool for brand protection and consumer confidence. By leveraging image analysis and machine learning, it contributes to the identification of manipulated logos, thus enabling proactive measures against counterfeit activities in the digital landscape.

Keywords: *Python development, graphical user interface (GUI), Object Oriented programming, fake logo detection*

Paper ID: ICCIASH-2023/B69

Victory Dash: The Car Racing Game with Score Counting through Overtaken Vehicles.

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Abstract:

This project aims to develop a car racing game using Python that tracks the player's victories based on overtaken vehicles and displays their score. The game will provide an engaging and interactive racing experience where players compete against computer-controlled opponents. The game will feature a graphical user interface (GUI) created using Python libraries allowing players to control their car using keyboard inputs. The GUI will provide a visually appealing environment with realistic racing tracks, obstacles, and other interactive elements. The scoring system will be based on the number of vehicles overtaken by the player's car during each race. The player will receive points for successfully overtaking opponents, and the score will be updated in real-time on the screen. The game will keep track of the player's highest score and display it as an achievement to motivate the player to improve their performance. To implement the game mechanics, the project will utilize concepts of collision detection, object-oriented programming, and game physics. Each car and obstacle will be represented as objects with their unique properties, allowing for smooth interaction and realistic movement.

Key words: *Car racing game, Python development, Overtaken vehicles, Score tracking, Graphical user interface (GUI), Object-oriented programming.*

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Paper ID: ICCIASH-2023/B70

Global Currency Converter – A GUI Based System

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Abstract:

The global currency converter is a digital tool that enables users to convert currency values between different countries worldwide. It serves as a convenient and efficient solution for individuals, businesses, and travellers who need to perform accurate and up-to-date currency conversions. The global currency converter leverages real-time exchange rate data obtained from reliable sources, such as financial institutions or central banks. By accessing these sources, the converter ensures that users receive the most current exchange rates, allowing for precise and reliable conversions. The converter typically features a user-friendly interface, making it accessible to users of varying levels of technical expertise. Users can input the amount they wish to convert, select the source currency, and choose the desired target currency. The converter then performs the necessary calculations based on the exchange rates provided to display the converted amount. The global currency converter's primary objective is to eliminate the complexities associated with manual currency calculations and provide users with a fast, reliable, and accessible solution for their currency conversion needs.

Key words: *currency, exchange, converter, indispensable tool, expertise, precise.*

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PYTHON BASED ONLINE FLIGHT TICKET BOOKING MANAGEMENT

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S.AKHILA

S. RAHUL

Abstract :

The online flight ticket booking management system is a Python-based application that allows users to search, book, and manage flight tickets. The system provides a user-friendly interface for customers to browse flights, select preferred options, and complete the booking process. It also offers features for administrators to manage flights, track bookings, and generate reports. The system utilizes various Python libraries and frameworks to provide a seamless experience for both customers and administrators. The core functionalities of the application include: User Registration and Login: Customers can create an account by providing their personal details and login using their credentials. This allows them to access their booking history and manage their profile. Flight Search and Booking: Users can search for flights based on criteria such as departure and arrival locations, dates, and passenger count. Customers can select a flight, provide passenger information, and proceed with the booking by making payment. Payment Gateway Integration: The system integrates a secure payment gateway to facilitate online transactions. Booking Management: Customers can view and manage their bookings, including the ability to cancel or modify reservations within a specified timeframe. The system updates the booking status accordingly and handles refunds, if applicable. Flight Management: Administrators can manage flight schedules, update ticket prices, and add new flights to the system. This involves interacting with the flight database and ensuring accurate and up-to-date information

Keywords: *web scraping, Database, User authentication, payment gateway integration, Error handling, Logging, Email notification, Data visualization, Testing frameworks.*

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PYTHON BASED- SIGNATURE VERIFICATION SYSTEM USING CONVOLUTIONAL NEURAL NETWORKS

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Abstract:

Signature verification is a critical task in various industries, including finance, legal, and government sectors, where the authenticity of signatures plays a pivotal role in document verification and fraud prevention. This paper presents a signature verification system implemented using Convolutional Neural Networks (CNNs) in Python, which leverages the power of deep learning to automate and enhance the accuracy of signature analysis. The proposed system consists of multiple stages, including image pre-processing, feature extraction, and signature classification. Initially, the input signature images undergo preprocessing techniques such as resizing, normalization, and noise reduction to improve image quality and standardize the input for subsequent stages. The CNN model consists of convolutional layers, pooling layers, and fully connected layers, enabling the network to learn hierarchical representations and capture local and global signature patterns. The model is trained using a large dataset of genuine and forged signature images, allowing it to learn the complex relationships between input signatures and their authenticity. Once the CNN model is trained, it can be deployed for real-time signature verification. The CNN-based approach achieves high accuracy and robustness in differentiating between genuine and forged signatures, surpassing traditional methods. The system's implementation in Python provides a practical and accessible solution for document verification, fraud detection, and forensic analysis, contributing to improved security and trust in various applications involving handwritten signatures.

Key words: *Signature verification, Convolutional Neural Networks (CNN), Python, deep learning, document verification, fraud prevention,*

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Contact management system usingn python

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Abstract

The Contact Management System is a Python-based application designed to efficiently manage contact information, including names and phone numbers. The system allows users to add, edit, delete, and list contacts in a user-friendly and organized manner. The system provides a simple and intuitive user interface, allowing users to easily navigate through various functionalities. When adding a new contact, users can input the name and phone number, which are then stored securely in a database or file system. The editing feature enables users to modify existing contact details. They can update the name or phone number associated with a contact, ensuring that the information remains accurate and up to date. Deleting contacts is also supported, allowing users to remove unnecessary or outdated entries from the system. This helps maintain a clean and relevant contact list. The list functionality provides users with a comprehensive view of all stored contacts. They can retrieve and display the complete contact list, making it convenient to search, browse, or reference specific entries as needed. The Contact Management System is implemented using Python programming language, leveraging its simplicity and versatility. The system may utilize various Python libraries or frameworks, such as Tkinter for GUI development or SQLite for database management.

Key words: *GUI development, Python libraries or frameworks*

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BANK ACCOUNT OPENING SYSTEM USING PYTHON

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ABSTRACT: The Banking Account Opening System is a software solution developed in Python that streamlines the process of opening new bank accounts. This abstract provides an overview of the system's key features, functionalities, and its significance in the banking industry. It enables individuals to initiate and complete the account opening procedure online, reducing the need for physical visits to the bank and minimizing paperwork. The system aims to enhance efficiency, convenience, and security while ensuring regulatory compliance. The system offers a user-friendly interface where prospective customers can provide their personal and financial information, such as identification details, contact information, and income sources. The system also facilitates the uploading of necessary documents, such as identification proofs and address verifications, in a secure manner. To guarantee the security and integrity of customer data, the system employs encryption techniques during data transmission and storage. It automates the process of verifying customer details, conducting background checks, and generating account numbers. The system also supports real-time integration with Know Your Customer (KYC) verification services, enabling banks to authenticate customer identities swiftly. In conclusion, the Banking Account Opening System in Python revolutionizes the account opening process, enhancing customer experience, reducing operational costs, and increasing efficiency for banks. By leveraging the power of automation and secure data handling, this system contributes to the digital transformation of the banking industry, offering a modern and streamlined approach to opening new accounts.

Keywords: Online account opening, streamlining process, reducing physical visits, user-friendly interface, financial information, Identification details, contact information, Income sources, Uploading documents, Secure data transmission, Encryption techniques

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FACE DETECTION USING IMAGES AND VIDEOS

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Abstract:

Face detection plays a crucial role in numerous applications, such as facial recognition systems, video surveillance, and social media filtering. This abstract presents an overview of face detection techniques implemented using Python. The objective of face detection is to automatically locate and identify faces within images or video frames. The proposed approach utilizes Python programming language, along with popular libraries like Open CV and dlib, to implement robust and efficient face detection algorithms. The process begins by acquiring the input image or video frame and pre-processing it to enhance the facial features. Various techniques, such as histogram equalization and image resizing, are employed to improve the accuracy of face detection. The next step involves applying Haar cascades, which are classifiers specifically designed for detecting objects in images, to locate potential face regions. These cascades are trained on large datasets, incorporating positive samples of faces and negative samples of non-faces. By using a sliding window approach, potential face regions are identified based on features like edges, texture, and symmetry. To further refine the detected face regions, machine learning algorithms, such as Support Vector Machines (SVM) or Convolutional Neural Networks (CNN), can be utilized.

Key words: *histogram equalization and image resizing, Support Vector Machines (SVM) or Convolutional Neural Networks (CNN),*

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**SCHOLARSHIP ADVISOR APP: EMPOWERING STUNDENT IN FINDING A
APPLYING FOR SCHOLARSHIPS**

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Abstract

The Scholarship Advisor App is a Python-based application designed to assist students in discovering and applying for scholarships that match their qualifications and preferences. With the increasing cost of education, scholarships play a crucial role in enabling students to pursue their academic goals without the burden of excessive financial obligations. This app aims to simplify the scholarship search process, provide personalized recommendations, and streamline the application process. The app begins by establishing a user-friendly interface using libraries like Tkinter, PyQt, or Kivy. The interface allows students to interact with the app seamlessly, providing an intuitive user experience. Upon launching the app, students can create an account or log in to access personalized features and preferences. To provide students with the most relevant scholarship opportunities, the app incorporates a comprehensive database that stores information about various scholarships, including eligibility criteria, deadlines, application processes, and other essential details. The data can be obtained through web scraping, APIs, or manual input.

Key words: *obligations, academic goals*

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DROWSY EYES DETECTOR IN CARS

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Abstract:

According to CDC, “An estimated 1 in 25 adult drivers (18 years or older) report falling asleep while driving...”. The article reports, “...*drowsy driving was responsible for 91,000 road accidents...*”. To help address such issues, we will create a Driver Drowsiness Detection and Alerting System using Mediapipe's Face Mesh solution API in Python. These systems assess the driver's alertness and warn the driver if needed. The "Drowsy Eyes Detector in Cars" is a Python project aimed at enhancing road safety by detecting drowsiness and alerting drivers to prevent accidents caused by fatigue. The project utilizes computer vision techniques and machine learning algorithms to analyze facial features and identify signs of drowsiness in drivers. By focusing on crucial facial regions such as eyes, eyebrows, and mouth, the system extracts relevant features for drowsiness detection. Specifically, it measures parameters such as eye closure duration, eye blink frequency, Eye Aspect Ratio (EAR) formula: and head pose. These parameters serve as reliable indicators of driver drowsiness, as studies have shown that drowsy individuals exhibit longer eye closures and reduced eye blink rates. The drowsiness detection algorithm analyzes various factors such as eye closure duration, eye blink frequency, and head pose to assess the driver's fatigue level. If the algorithm detects signs of drowsiness, an alert mechanism is triggered to warn the driver and prompt them to take necessary actions to stay alert and focused on the road.

Keywords: *driver drowsiness detection, Mediapipe, computer vision, facial landmark detection, real-time monitoring, drowsiness indicators*

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EXPENSE TRACKER

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Abstract:

The web application "Expense Tracker" is developed to manage the daily expenses in a more efficient and manageable way. By using this application we can reduce the manual calculations of the daily expenses and keep track of the expenditure. In this application, user can provide his income to calculate his total expenses per day and these results will be stored for each user. The application has the provision to predict the income and expense for the manager using data mining. In this application, there are 3 logins such as admin, manager and staff. Admin has the privilege to add, edit, delete manager, add, edit, delete staff, and to get all custom reports. For Manager, the privileges are to add type of expense, verify expense, add type of income, verify income and generate reports. For staff, the privileges are to add and edit expense, income and calculations, and send for verifications. The Expense Tracker project is a Python-based application that empowers users to efficiently manage their expenses through a user-friendly GUI. By incorporating features such as expense categorization, budgeting, intelligent analysis, and comprehensive reporting, the project enables individuals to gain better control over their finances and make informed financial decisions. The application allows users to generate comprehensive reports summarizing their expenses over specified time periods, providing valuable insights into their spending patterns. Users can view expenditure trends, compare expenses across categories, and identify areas where they can potentially save or optimize their budget. The Expense Tracker project offers opportunities for customization and further expansion. Users can incorporate additional features like expense reminders, income tracking, goal setting, or integration with external financial services.

Keywords : *Daily expense and income, Least Square Algorithm, Prediction*

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WEATHER APPLICATION USING PYTHON

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Abstract:

Weather plays a crucial role in our daily lives, influencing our activities, travel plans, and safety considerations. The Python-based Weather Application is a comprehensive software solution developed to provide users with accurate and real-time weather information through an intuitive and user-friendly interface. This application aims to address the need for reliable weather forecasting and data analysis by leveraging the power of Python programming language and its rich ecosystem of libraries and APIs.

With the increasing availability of weather data from meteorological agencies and weather APIs, there is a growing demand for tools that can effectively collect, process, and present this information in a meaningful way. The Python-based Weather Application aims to fulfil this demand by fetching weather data from trusted sources and presenting it to users in a visually appealing and easily understandable manner.

The Python-based Weather Application serves a wide range of users, including weather enthusiasts, travellers, and professionals who rely on accurate weather information for planning and decision-making. Whether it's for a leisurely outing, a business trip, or safety preparedness, this application provides users with the essential weather data they need to make informed choices.

Key words: *Python, weather application, data visualization, weather forecast, data analysis, APIs, libraries, user-friendly interface*

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HOUSE PRICE PREDICTION

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Abstract:

The House Price Prediction project aims to develop a Python-based solution that can predict the prices of houses based on various factors. With the increasing demand for real estate and the complexity of determining accurate house prices, this project leverages machine learning algorithms to analyze historical data and generate reliable predictions. The project begins by collecting a comprehensive dataset comprising relevant features such as location, square footage, number of bedrooms, bathrooms, amenities, neighborhood characteristics, and other influential factors. The dataset is preprocessed to handle missing values, outliers, and categorical variables, ensuring the data is in a suitable format for model training. Multiple regression algorithms, such as linear regression, decision trees, random forests, or gradient boosting, are implemented to build predictive models. The dataset is divided into training and testing sets to evaluate the performance of each model. The models are trained using the training set and then evaluated using appropriate evaluation metrics, including mean squared error (MSE), mean absolute error (MAE), and R-squared (R²) to assess their accuracy. Feature engineering techniques are employed to enhance the predictive power of the models. This involves selecting the most relevant features, creating new features through feature extraction, scaling the data, and handling feature interactions. Additionally, the project explores techniques like regularization, cross-validation, and hyperparameter tuning to optimize the models and mitigate overfitting.

Keywords: *squared error (MSE), mean absolute error (MAE), and R-squared (R²)*

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.PYTHON PROGRAMMING: ONLINE COLLEGE ADMISSIONS

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Abstract

Traditional college admission is a hectic process, which involves students visiting off-site campus, taking application, filling it and then submission is another hectic story. On the day of admission, the flow of candidates is very high and it requires both manual processing and record keeping at the same time that makes the process lengthy and difficult to keep track of the admission status of a candidate in multiple departments. At present admission process is done manually with pen and paper which is very inefficient and utilizes much efforts and time. This college admission management system helps to make the admission process much easier and helps in maintaining database in an efficient way. In this system college admin can add the college details and the stream details. We can get the previous year's cut off marks for all the streams. College can create the cut off list for the current year and the students are expected to register on the website and apply for the desired stream. College can register admissions of new students and also remove the students who denies the admission. College can make 3 list of cut off and the final list of students can be viewed.

Key words: *database, admin (college) and user (students)*

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DIGITAL WHITE BOARD

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Abstract:

This project aims to develop a simple whiteboard application using Python programming language. The application provides users with a basic canvas on which they can draw and create simple sketches or illustrations. The simplicity of the whiteboard allows for easy understanding and quick implementation. The whiteboard application is built using the Tkinter library, which provides a set of tools for creating graphical user interfaces (GUIs) in Python. The main features of the application include: Canvas Creation: The application creates a window with a canvas component where users can draw. The canvas acts as a blank slate for users to express their creativity. Drawing Tools: Users can draw on the canvas using a simple drawing tool, such as a brush or a pen. The application captures the mouse movements and translates them into lines or shapes on the canvas. The drawing tools allow for freehand drawing, enabling users to create various patterns and designs. Color Selection: The whiteboard application provides a color palette or a color picker tool, allowing users to choose different colors for their drawings. This feature enhances the visual appeal of the sketches and enables users to create vibrant and colorful artwork. The development process involves setting up the GUI using Tkinter, handling mouse events for capturing user input, implementing the drawing functionality.

Key words: *white board, canvas creation, drawing tools, colors*

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SELF PETROLEUM PASS

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Abstract:

The advent of self-service petroleum stations has revolutionized the fueling industry, introducing a paradigm shift in traditional operations. This abstract aims to provide an overview of the concept of self-service petroleum, exploring its historical background, benefits, challenges, and implications for the industry. The practice of self-service petroleum emerged in response to changing customer demands and advancements in technology. With the introduction of automated fuel dispensers, customers were empowered to take control of their fueling experience, allowing them to select the desired fuel type, quantity, and payment method. This shift from attended service to self-service has significantly transformed the fueling landscape. Several benefits are associated with self-service petroleum. Firstly, it offers convenience to customers, enabling them to fuel their vehicles at their own pace and preferred time. This convenience factor has led to increased customer satisfaction and loyalty. Moreover, self-service stations often provide lower fuel prices due to reduced labor costs, offering a competitive advantage in the market. Additionally, self-service petroleum has streamlined operational efficiency, allowing gas station owners to allocate resources more effectively.

Keywords: *operational efficiency, petroleum*

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UNIT CONVERTER IN LENGTH, MASS AND TIME

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Abstract:

The "Unit Converter in Length, Mass, and Time" is a Python project designed to provide a versatile and user-friendly tool for converting values between different units of measurement in the domains of length, mass, and time. The project aims to simplify the process of unit conversion and improve efficiency in various fields that require quick and accurate conversions. The unit converter supports a wide range of units within the length, mass, and time categories. Users can input a value in one unit and select the desired target unit for conversion. The Python program then performs the necessary calculations to convert the value accurately and displays the result. The project utilizes a modular and extensible design, allowing for easy expansion to accommodate additional units or measurement categories in the future. The code is implemented using Python and employs interactive user interfaces through libraries such as Tkinter or PyQt to provide an intuitive and visually appealing user experience. The "Unit Converter in Length, Mass, and Time" project offers numerous benefits. It saves time and effort by eliminating the need for manual calculations and referencing conversion tables. It provides flexibility by supporting a wide range of units, accommodating various measurement systems and preferences. Additionally, the project promotes accuracy in conversions, reducing the risk of errors associated with manual calculations.

Keywords: *risk of errors, Unit Converter in Length, Mass, and Time*

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SECURITY SOFTWARE FOR THREAT DETECTION AND PREVENTION

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Abstract:

In today's digital landscape, the need for robust security software has become paramount. With the increasing frequency and sophistication of cyber threats, organizations and individuals must employ effective solutions to detect and prevent potential risks. This project aims to develop a Python-based security software that enhances threat detection capabilities and strengthens overall security measures. The proposed security software will leverage Python's versatility, extensive libraries, and powerful frameworks to create a comprehensive and customizable solution. The software will employ a multi-layered approach, combining various security techniques to provide comprehensive protection against a wide range of threats, including malware, phishing attacks, unauthorized access, and data breaches.

Keywords: *phishing attacks, unauthorized access, and data breaches.*

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PETROL PUMP MANAGEMENT SYSTEM - UNDERSTANDINGITS

MODULE

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Abstract:

Petrol pumps play a major role in our daily lives. They are the main sources that supply fuel to automobiles, cars, motorbikes are few to name. Previously petrol pumps employment was managed manually using notebook and pen which made work tedious. To reduce the time and effort, an online management system has been implemented. The main purpose of the module is to provide all the functionality related to Employees. The module is used to record all the information and details of the Employees. Other features of the module include: Admin can add new Employees records, there is a list comprising of employees and their details. The admin can edit and update the data of the employees. The records can be deleted at will by the admin. Each employee has their unique numeric code which can be used to retrieve their information. The Admin can access the module through website or an app.

Key words: *online management, numeric code, module, website*

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PLAGIARISM DETECTION

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Abstract

Plagiarism detection is the process of identifying and determining instances of plagiarism, which involves presenting someone else's work, ideas, or words as one's own without proper attribution. Abstractly, plagiarism detection can be achieved through the following steps: Text Preprocessing: Preprocess the input texts to remove unnecessary elements such as punctuation, special characters, and convert the text to a standardized format (e.g., lowercase). Text Comparison: Compare the preprocessed texts to identify similarities and differences. Various algorithms and techniques can be used for text comparison, such as Jaccard similarity, cosine similarity, or Levenshtein distance. Similarity Calculation: Calculate a similarity score based on the text comparison results. This score represents the degree of similarity between two texts. Different similarity metrics may be used, depending on the specific requirements of the plagiarism detection system. Threshold Determination: Establish a threshold value or a predefined similarity score above which a text is considered plagiarized. The threshold can be set based on domain-specific requirements or guidelines. Plagiarism Detection: Compare the similarity score obtained from step 3 with the threshold. If the similarity score exceeds the threshold, the texts are flagged as potentially plagiarized. Plagiarism detection systems can be further enhanced by incorporating additional techniques, such as source code analysis, natural language processing, and machine learning algorithms to improve the accuracy and effectiveness of detecting plagiarism in various contexts.

Keywords: *Text comparison, Text processing, similarity calculation, plagiarism detection*

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IMPLEMENTATION OF TYPES OF FOOD ITEMS THROUGH AUTOMATION

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Abstract:

The arrangement of food items is a common task in many applications. This abstract presents a Python implementation using four fundamental data structures: lists, dictionaries, tuples, and sets. The system aims to organize types of food items into While the current setup may serve as a basis for food two categories: existing and proposal. management, it lacks the nuance that would allow for optimal storage and retrieval. In the absence of data structures like lists, dictionaries, tuples, and sets, it would be a monumental task for the human brain to categorise and standardise all possible food items into a manageable arrangement. Putting together a meal is a time-consuming process. Before the agreement, it would take the store owner a long time to locate a certain food item. Due to the fact that data on food products is entered manually and in the form of books, mistakes are possible. The suggested system presents a novel approach to categorising meals by using tuples and sets. Using this technique, users may keep better tabs on their current food supply while also planning for future growth. By offering a means for users to quickly identify and categorise current goods and suggest new ones, the proposed system hopes to improve the effectiveness of food item arrangement. The list data structure, first, is useful since it allows for an adaptable and hierarchical listing of food products. It's simple to rearrange or alter the components..

Key words: *Mapping,Dictionary,list,tupple,food items*

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Patribham - A guide for makeup accessories

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Abstract:

Patribham is our tool name. Where the users can find the an easy guide to know more about the makeup accessories and their brands. Existing : generally people enquiry about the makeup brands and accessories how to use them which is best and what is the price of it...etc like so many things. But it may be accurate or not so that people will suffer with this unorganized information. To give accurate and organized information patribmtool is designed where people can find all those things such as top most makeup accessories brand names , some accessories names , types of makeup accessories. In such a it could be upgraded every time according to the changes that will happen in grading of the top most brands. So that we could add the new brands in that list and can delete the brand name which is in low ranking.

Key words: *dictionary,tuple,set,list,makeup items,tools*

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**MANIPULATING, STROING AND RETRIEVING THE DATA OF
FLIPKART PRODUCT**

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Abstract

The objective of this project is to create a Python programme that uses a variety of data structures such as lists, tuples, dictionaries, and sets. With this project, we can analyse the entire Flipkart product range. As you are already aware, on Flipkart, we can select the product or remove it from our list. In that we can't delete a number of products at a time and they can't be arranged in alphabetical order. Now, from my project, you can manipulate, store, and retrieve the data of the product by using lists, tuples, sets, and dictionaries. We designed this project in such a way that you can select the data according to the cost by using a dictionary, and you can even set the product in alphabetical order and easily retrieve the data of the product. As we are using sets in this project, we know the statistics of more popular products and can analyse them in a better way. Hence, the given project is worth it for the customer to find his or her product in a blink of an eye and can be manipulated very easily.

Key words:*Dictionary,tuple,set,list,flipkart products,*

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**POPARTIST GALLERY: A JOURNEY OF POPULAR ARTISTS
S.SUDHAKAR REDDY.**

A.AKHILA.

H.SAI KIRAN.

M.SANJANA

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Abstract:

The pop artist gallery is an immersive exhibition of works of the pop artists. This abstract presents a python implementation using 4 types of data structures :LISTS, TITLE, DICTIONARY and SETS. This system will categorise into two methods: existing and proposal method. This system provides a unique information about the pop artists information. There are some techniques to store and manipulate the data, like data handling systems, programming techniques. By these users know about the artists and their additional information. This project includes the the searching and sorting techniques. This project provides the data of the popular pop artists, their artistic styles and etc. The proposal introduces a new concept through tuples, dictionary, sets and lists. By using this system users can find and update the existing data into a new format by some additional. This helps in categorising the data of popular pop artists. Lists:this helps in providing a collection of data of pop artists by allowing addition, removal of data. Dictionary-this helps in update operations by accusing the artist data to the user. Tuple-it provides the ordered and mannered collection of pop artists, according to their specific styles and categorizing their artistic way. Sets-It provides a uncategorized collection of data of these artists, which helps in providing the style of the pop artist. In this we have used append, delete, POP, remove, insert, index types for the identification of the data of pop artists, which makes the project simple and much easier to get to the user.

Key words: Dictionary,tuple,set,list,pop,music

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IDENTIFICATION OF QUALITY AND LIST OF ICECREAM BRANDS

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Abstract:

In the food industry, organizing ice cream brands is an essential duty. This exploration presents an implementation in Python employing lists, dictionaries, tuples, and sets—four fundamental data structures—that are intricately intertwined. The suggested system tries to divide ice cream brands into two groups: potential and established. The sophistication needed to improve organisation and retrieval is not there in the Existing system. The organisation of ice cream brands was a difficult operation that required a lot of human effort before the development of these data structures, and maintaining ice cream might be time-consuming due to a lack of organisation and retrieval optimisation. The suggested system seeks to enhance the efficiency of ice cream arranging by allowing users to quickly recognize and categories existing goods while offering a method to recommend new additions. The list data structure provides a flexible and ordered collection of ice cream items, allowing for easy addition, removal, and modification of elements. The dictionary data structure offers a powerful key-value mapping mechanism, allowing users to associate specific attributes with each ice cream item. The tuple data structure provides an immutable and ordered collection of ice cream components, appropriate for the predetermined classification of flavours or toppings.

Keywords: *Dictionary, set, tuple, list, ice creams, mapping*

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**IDENTIFICATION OF FUNDAMENTAL DATA STRUCTURES
FOR MANAGEMENT OF IPL TEAM**

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Abstract:

Indian premium league is one of the most popular cricket tournaments in all over the world. By using python's data structure this abstract provides a comprehensive overview about all the players participating in the tournaments and there performances ,contributions. The IPL is a pool of emerging and talented players, which include international stars, powerful youngsters, and well experienced players. The existing system provides us about the basic details about the team and there team members but it lacks at some particular points where we can't analyse the whole information of players in the team Like number of international players ,well experienced bowlers, emerging players, unbreakable records and individual records. To know all the details of individual players it was difficult and there was no proper arrangement and collection of information. The proposal system introduces about new concept to overcome the problems that was existed previously. Using the data structures in python like list, tuple, dictionary we can arrange the information of individual players and there contribution in IPL career as we require. The proposed system aims to enhance the details of team members can also update the data day to day.

Key words: *Dictionary,set,tuple,list,score,cricket*

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MANAGEMENT OF VARIOUS GYM EQUIPMENTS USING PYTHON

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Abstract:

In this project, we arrange the various gym equipment's in a structured way using python's various data structures. We come across the usage of lists, tuple, sets and dictionaries. By using the python command's we create the list to store the gym equipment's names and their attributes. Through the usage of commands such as insert, delete, append and remove we can modify the data by adding or deleting the equipment's entry dynamically. The operations such as sorting can be used for arranging the data in desired order. Further, we explore techniques like copy and convert data into dictionary for enhanced data management. The knowledge gained from this project can be used in situations where structured data handling is necessary. Currently, the gym equipment data is arranged in an unstructured manner without any proper organization. Previously, without the use of python commands the organization of gym equipment's become very challenging as it takes lots of time for us to segregate the similar equipment's and models manually. It also takes a lot of time to search the required equipment without proper arrangement. The data will be stored in the form of various sources such as documents, spreadsheets or even stored informally which may cause mismatch sometimes.

KEYWORDS: Data structures, gym equipment, list, tuple, sets, dictionary, data integrity, structured approach

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METHODOLOGY TO LIST COUNTRIES IN SERIALIZED ORDER

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Abstract:

The Listing of countries is a common task in many applications. This abstract presents a Python implementation using four fundamental data structures: lists, dictionaries, tuples, and sets. The system aims to organize countries into two categories: existing and proposal. The existing system provides a foundation for listing the countries but lacks the sequential order and all the countries were not discovered in olden days. Before the introduction of list, dictionary, tuple, set the organization of countries in alphabetical order is very difficult as it is hectic work for a human brain to organize all the countries in a serialized manner and all the countries were not known. The arrangement of all the countries present in the world takes lots of time. Before the arrangement, a person finds it difficult to search for a country and it made him difficult to explore the places and had might not known completely about the country. In olden days, the information of countries was recorded manually in the form of books, that information may miss due to any accidents. The proposal system introduces a new concept of listing countries in a sequential order through the use of tuples and sets. By implementing this system, users can efficiently find and explore the country, get to know about a country easily, considering potential additions.

Key words: *Dictionary, set, tuple, list, countries ,serial order*

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SIGNIFICANT IMPACTS OF COVID-19 AND THE ADAPTIONS WE MADE FROM IT.

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Abstract:

We have seen many changes in our lives during covid pandemic and after the pandemic. This abstract presents a Python implementation using four fundamental data structures: lists, dictionaries, tuples, and sets. The system aims to show what are the things that have been adopted by us through covid into two categories: existing and proposal. The existing system provides several notable things that has brought significant changes to our daily lives by covid-19. Before the introduction of list, dictionary, tuple, set, there is no structured way to present information about the covid concerns and their impacts . This might make users unable to get information in a concise and condensed manner. The proposal system introduces a new concept of what are the different symptoms that have been observed during the different phases of covid, economical impact and mental health challenges through the use of tuples and sets. By implementing this system, it is really efficient to know what are the challenges that are facing by the people by the impact of covid. The proposed system aims to enhance the lives with covid by allowing users to easily get new information about covid and existing items, while providing a mechanism to suggest new additions.

Key words: *Dictionary, tuple, set, list, covid, adaptations*

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Paper ID: ICCIASH-2023/C16

**DIFFERENT TV CHANNELS FOR SPORTS, COMEDY SHOWS,
MOVIES, SONGS, TV SERIALS.**

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Abstract:

People in this modern period are very much curious to know about the things happening around them. So they watch different TV channels not only for the important news but also for entertainment. This abstract presents a Python implementation with the help of four fundamental data structures: list, tuples, dictionaries and sets. The system aims to organize TV channels into two categories: existing and proposal. The existing system gives the solid information about TV channels but lacks to include all the top genuine channels which really telecast any kind of news with maximum accuracy including Tv serials, sports, movies, comedy shows. Before introduction of list, tuple, dictionary, set there is a need to search for each and every TV channel separately for sports, comedy shows, movies and TV serials. It also consumes lot of time in searching for good TV channel. Proposal system builds a new foundation to access different TV channels which telecast the all kinds of news with maximum accuracy including sports, comedy shows, TV serials, and movies. It provides a fair list of top TV channels so that people In this busy world get access to the trending news and entertainment shows. The proposed system aims to enhance the efficiency of TV channels by allowing the users to easily identify and categorize existing TV channels, while providing a mechanism to suggest new additions.

Key words: *Dictionary, set, tuple, list, tv, channels, mapping*

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**IDENTIFICATION OF FUNDAMENTAL DATA STRUCTURES FOR
ANALYSIS OF THE LEADING LAPTOP BRANDS.**

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Abstract:

The laptops are now mostly used by everyone everywhere. Instead of using computers are they cannot be portable from one place to other so we are using laptops .It is important to know what are the brands of the laptops Their working, which is the most famous one etc. By using the python abstract we can know there details properly. Before this project was done. The user used to ask others and know which laptop will work efficiency. Until we experience yourself we don't know it's features and efficiency. There are available in the market for different purpose like gaming laptops,study purpose laptops, work based laptops etc.By using different methods like tuple,set,list, dictionary etc...we are making it easy for user understanding to make better choices for their purposes. By using these data structures we can update the list of new brands and their factors for better understanding.

Key words: *Dictionary, tuple, set, list, laptops, brands*

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Paper ID: ICCIASH-2023/C18

ARRANGEMENT OF VARIOUS CHOCOLATE BRANDS IN A STORE.

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Abstract:

Chocolates are one of the most common and most selling products in a retail/general store. Having the track of analysis and arranging the chocolates based on numerous factors is the complicated job. This abstract presents a python implementation using four fundamental data structures: lists, dictionaries, tuples and sets. This system aims to organize chocolate brands into two categories: existing and proposal. The existing system contains various chocolates in a store but these chocolates will be existing in cluttered form with the lack of arrangement of chocolates based on their pricing, based on their availability, whether the latest launch of new chocolate is available in this store and the position of chocolates in the store. Before the introduction of list, dictionary, tuple, set the workers of the store used to struggle as the it is considered a hectic work for a human brain to organize and normalize all type of chocolate brands. The information of chocolate brands used to be recorded manually in the form of books, that information could be missing due to any accidents. The proposal system contains a concept of organizing chocolate brands in a store using the concepts such as set, dictionary, tuple and list. By implementing this system, users can efficiently track and update their existing chocolate brands. The proposed system aims to enhance the efficiency of chocolate brands arrangement by allowing users to easily identify and categorize existing items, while providing a mechanism to suggest new additions.

Key words: Dictionary, set, list ,tuple, chocolates, brands.

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A METHODOLOGY TO IMPLEMENT THE BISCUIT BRANDS MANAGEMENT SYSTEM

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Abstract:

The arrangement of biscuit brands is a common task in many applications. This abstract presents a Python implementation using four fundamental data structures: lists, dictionaries, tuples, and sets. The system aims to organize footwear into two categories: existing and proposal. Existing system contains various types of biscuits in a store but these biscuits will be existing in unarranged order with lack of arrangement of biscuits based on their pricing ,based on their availability, whether the latest launch of new biscuit is available in the store and the position of the biscuits in the store . The proposal system introduces a new concept of organizing biscuit through the use of tuples and sets. By implementing this system, users can efficiently track and update their existing biscuit inventory, while also considering potential additions. The system aims to enhance the efficiency of biscuit arrangement by allowing users to easily identify and categorize existing items, while providing a mechanism to suggest new additions.

Key words:*Dictionary,set,list,tuple,biscuits,brands*

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Identification of currency notes management system

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Abstract:

Currency notes have been a fundamental medium of exchange for centuries, facilitating economic transactions worldwide. However, the existing system of currency notes is not without its challenges. In this abstract, we present a proposed system that offers a simple way to enhance the functionality and security of currency notes. currency notes relies on physical paper and ink, making them susceptible to counterfeiting and wear and tear. Moreover, manual authentication processes can be time-consuming and require specialized training. Our proposed system aims to address these limitations by leveraging modern technology. introduces digital currency notes, which combine the familiarity and convenience of physical currency with the benefits of digital transactions. Each currency note is embedded with a unique digital identifier, enabling secure authentication and tracking. This identifier can be read using simple and widely available devices such as smartphones or dedicated scanning devices.

Key words: *Dictionary, set, tuple, list, currency notes, transactions*

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CAR BRANDS: AN ORGANIZED SEQUEL

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Abstract:

The world of automobiles is filled with numerous car brands, each offering its unique identity and range of vehicles. In Python, it has various data types to efficiently manage and organize information related to car brands. This abstract explores the utilization of data types such as Lists, Tuples, Sets, and Dictionaries in Python to store and manipulate data pertaining to car brands. List is a data type that stores multiple car brands names in an order. It provides flexibility in terms of adding, removing, or modifying elements. Tuples, similar to lists. Tuples can store car brands however, they differ in their immutability. If a tuple is created, the elements in it cannot be modified. Sets are unordered collection of unique elements stored in it. In the context of car brands, a set can be used to store a distinct collection of brands without any particular order. Dictionary is a data structure that store data in the form of key-value pairs. It provides a powerful way to store car brands as keys and associate them with additional information such as country of origin, founding year, or popular models. Python offers many sets of data types, including Lists, Tuples, Sets, and Dictionaries, that can be effectively utilized to manage and manipulate data of car brands.

Key words: *Dictionary, tuple, set, list, brands, cars, automobiles*

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Paper ID: ICCIASH-2023/C22

**CRICKET TOURNAMENT MANAGEMENT SYSTEM,TEAM
OPERATION AND DATA HANDLING WITH PYTHON**

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Abstract:

International Cricket Team is python based application that aims to facilitate the management and organization of International Cricket Team this abstract presents a python implementation using four fundamental data structures List, tuple,set and dictionary.This system aims to organize International Cricket Team into two categories : Existing and Proposal System.This system maintains a list of players participating in the International Cricket Team .Each player information ,including their names., batting average,bowling average is stored in list match details such as opponent team ,venue,date and time store in tuple.Score details,including the runs scored ,wickets taken are stored in dictionary The proposed system introduces a set to store player rankings based on their performances and top-ranked players can be updated dynamically as new match results are added to store and process various performance such as batting average, bowling average, strike rates and economy rates

Key words: *Dictionary,tuple,set,list,cricket,runs*

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DIFFERENT CONTROL STATEMENTS IN PYTHON

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Abstract:

Control statements are the backbone that gives a language its power and flexibility. They allow developers to make decisions based on specific conditions and modify the normal sequential flow of a program. By using control statements effectively, developers can write more efficient and effective code. And there are many uses of control statements in . we have few codes which are used in python. And we also know about the difference between the two conditional statements and how can we use a control statements outside and inside the loops. In conclusion, control statements in python are used to control flow of execution of a program. The three types of control statements are break, continue, and pass. These statements allow us to selectively execute specific parts of the code based on certain conditions, optimize performance, and handle errors by using control statements in python effectively, we can write more efficient and -free code.

Keywords: *control statements, python*

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Catch and Match colour pygame

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Abstract:

Pygame is a python library that can be used specifically to design and build games. Pygame supports only 2d games that are built using different sprites. Pygame is not particularly best for designing games as it is very complex to use doesn't have a proper GUI like unity but it definitely builds logic for further complex projects. We'll be creating a simple game with the following rules:-The player can only move vertically. Other than player block there will be two other blocks. One of them will be the enemy block and one of them will be score block. If the player collides with the enemy block then the game over screen pops up, if the player collides with the score block the score is incremented and it is compulsory to collect all score blocks.

Keywords: *pygame,block, game*

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NUMBER GUESSING – ANALYSIS IN PYTHON

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Abstract:

The number guessing game is a popular game among programmers. In the number guessing game, the program selects a random number between two numbers, and the user guesses the correct number. If you want to learn how to create a guessing game using Python, this article is for you. In this article, I will take you through a tutorial on creating a number guessing game using the Python programming language. To create a guessing game, we need to write a program to select a random number between 1 and 10. To give hints to the user, we can use conditional statements to tell the user if the guessed number is smaller, greater than or equal to the randomly selected number . So below is how you can write a program to create a number guessing game using Python .If the guessed number is lower than the randomly selected number, the user will see “too low”. If the guessed number is higher than the randomly selected number, the user will see “too high”. When the user guesses the correct number, “you guessed it right!!” will be displayed in the output. So this is how you can write a program to create a guessing game using Python. It is a popular game among programmers. In this game, the program selects a random number between two numbers, and the user guesses the correct number. I hope you liked this article on how to create a guessing game using Python. Feel free to ask valuable questions in the comments section

Keywords: Tutorial, tinkter, Random Numbers, Conditional Statements.

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BUS RESERVATION SYSTEM

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Abstract:

A bus reservation system is a mobile or web software solution designed to provide customers with a personalized easy-to-utilize user experience for booking and purchasing tickets online. It stores customers personal data records, scheduled routes frequent trips, drop points, and other information. It provides a facility which is used to reserve seats and cancellation of reservation and different types of route enquiries used on securing quick reservations. Travelling is a large growing business across all countries. Bus reservation system deals with maintenance of records of details of each passenger. It also includes maintenance of information like schedule and details of each bus. We observed the working of the Bus reservation system and after going through it, we get to know that there are many operations, which they have to do manually. Bus reservation system is a software application that allows users to book bus tickets online.

Keywords: *Reservation system, computerized reservation system,*

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Study Of Currency Converter: Analyze Digital Currency Converter

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Abstract:

A currency converter is a tool that enables quick and convenient conversion of one currency to another. It plays a significant role in international transactions, travel, and financial planning. The converter uses up-to-date exchange rates to provide users with the equivalent value of their money in a different currency. It helps travellers estimate expenses, assists businesses in pricing and invoicing, and aids investors in monitoring portfolio values. Currency converters are developed using programming languages like Python, leveraging APIs for real-time exchange rate data. While the results provided are estimates, they offer valuable insights for decision-making and financial calculations. Overall, currency converters simplify currency conversions and enhance global financial interactions. In conclusion, a currency converter is a versatile tool that simplifies currency conversions and enhances financial decision-making. It empowers individuals, businesses, and investors to navigate the complexities of the global economy with ease, providing them with valuable insights and aiding in accurate financial planning.

Keywords: *Currency converter, Exchange rates, International currency, Conversion rates.*

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QR code generator by using python- It's Working and Convey Changes

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Abstract:

QR Code generator is an application that takes in a url or a string and creates a QR Code for it. Here we can save the generated QR code as an image with the png Extention. Python QR code generator is an application that creates QR code for a particular string or URL. In this application. the user will have an entry field to enter the url or the string and a QR code will be saved in the system. Let's develop QR code Generator Project using python. In this project, we are going to create a QR code Generator using python. For creating the GUL of the project we are going to use the Tkinter Module and its inbuilt function. For creating a QR code we are going to use the pyqrcode Library. We will be creating a GUL Window that will have an entry field to enter the string or the url and the QR code will be generated for this entered string.

Key words: *Tkinter module, png module, pyqrcode module,*

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Check if two PDFs documents are identical with python

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Abstract:

Adobe makes it easy to compare the changes in two PDF files. we sometimes need to compare a lot of PDF files (especially reports!) against some preset baselines. In these cases, it helps to have a script that can compare PDF files and tell you if they differ in any way. There are several options. We like DiffPDF, pdf2text, the pdf-diff python module. Each option comes with its own set of pros and cons. Most of these solutions do a good job of comparing the text in the PDF files. However, we noticed that they are somewhat lacking when it comes to comparing graphs and charts. In this, we will see one more approach which is useful if you have a lot of graphs and charts in your PDF files.

Key words: *PDFs, base lines, files, graphs and charts.*

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Paper ID: ICCIASH-2023/C30

**Depressed Users Analyzer – Classifying Depressed Users From Social Media
Using Expression Analyzer**

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Abstract:

Emotions have an important role in our everyday lives. Establishing communication between people is through emotions and facial expression. Nowadays, there is a strong interest in improving the interaction between humans and computers. Today's world is solely dependent on social media. A number of mental disorders caused by the social networks are seen such as cyber addiction, net Compulsions, etc. this becomes more problematic when there is delayed clinical intervention. We are preparing a project where it can detect in the early stages. We take face images of a particular user where each image depicts an expression and is categorized as positive or negative. We have 6 expressions. They are sad, normal, happy, angry, surprise, disgust. Where expressions such as sad, angry, and disgust are concluded as negative and normal, happiness and surprise are concluded as positive. For certain people, if we are having a more negative depiction then it is concluded to be a mental disorder. We use image processing with Convolution Neural Networks for detection and prediction.

Key words: *Emotions, Social Media, Mental Disorders, Cyber Addiction, Compulsions, Disgust, Intervention, Expression, Positive, Negative, Convolution Neural Networks, Detection.*

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QUIZ GAME USING PYTHON

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Abstract :

The sole intention behind the consideration of this project is to generate and manage a simple database for question. This project is developed considering "QUIZ" information keeping context of the customer in mind. Here, data is stored in a binary file by "QUESTION" and this database is basically used as MASTER file. Reports are designed on the basis of customer's stay and payments made by the customer. In this software you can ask for any Menu on the basis of the Menu question will be asked to the user & the user get 10 sec for answering the question. If the user is correct then he/she get 10 points on every question. If he is incorrect then he lost the game & game is closed.

Key words: *quiz.py*

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AUTOMATIC WATER PUMP CONTROLLER USING ARDUINO

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Abstract:

This Arduino based automatic water level controller project we are going to measure the water level by using ultrasonic sensors. Basic principal of ultrasonic distance measurement is based on ECHO. When sound waves are transmitted in environment then they return back to the origin as ECHO after striking on any obstacle. So we have to only calculate its traveling time of both sounds means outgoing time and returning time to origin after striking on any obstacle. And after some calculation we can get a result that is the distance. This concept is used in our water controller project where the water motor pump is automatically turned on when water level in the tank becomes low. You can also check this simple water level indicator circuit for a simpler version of this project.

The automatic water control pump circuit posted here is used to automate the operation of an electrical water pump based on the level of water in the overhead tank. The automatic water pump controller using Arduino circuit can be used as a standalone system and can be Inter faced to the existing control panel. In this project we have used very common, efficient and cheap components. It is very simple circuit and useful for all. It is used in home, public forums, industries. Especially, homes with elderly people it is a necessary one to fill the tank for daily purpose. And for daily office workers it is one needful to fill the tank.

Key words: *ECHO*, Arduino, ultrasonic.

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CLAP SWITCH BY ELECTRICAL CIRCUIT

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Abstract:

This is a project on CLAP SWITCH which can switch on/off any electrical circuit by the sound of the clap. The clap-operated circuit is a circuit which operates by clapping from a remote point. When a person claps one, the first output of the circuit is turned on. If another one is clapped, the second output is switched on and then another one will cause to energize the third output. The basic idea of clap switch is that the electric microphone picks up the sound your claps, coughs, and the sound of that book knocked off the table. It produces a small electrical signal which is amplified by the succeeding transistor stage. Two transistors cross connected as a bittable multi vibrator change state at each signal. One of these transistors drives a heavier transistor which controls a lamp. Basically, this is a Sound operated switch. For example, fan, fluorescent light, TV and other appliances can be switched on (or) off by clapping. This circuit can be used by changing individual situations.

A "Clap On Clap Off" switch is an interesting concept that could be used in home automation. It works as a switch which makes devices ON and OFF by making a clap sound.

Key words: *Condenser microphone, BJTs, NE555 Timer, decade counter, LED, relays.*

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FIRE DETECTION AND ALARM SYSTEM

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Abstract:

Fire detection and alarm systems are designed to detect the presence of fire or smoke in a timely manner and alert occupants, enabling swift evacuation and firefighting response. These systems consist of various components, including smoke detectors, heat sensors, control panels, and audible/visual alarms. The detectors continuously monitor the environment, promptly detecting the early signs of fire, such as smoke, heat, or flames. Fire detection and alarm systems are designed to detect the presence of fire or smoke in a timely manner and alert occupants, enabling swift evacuation and firefighting response. These systems consist of various components, including smoke detectors, heat sensors, control panels, and audible/visual alarms. The detectors continuously monitor the environment, promptly detecting the early signs of fire, such as smoke, heat, or flames. Fire detection and alarm systems play a crucial role in minimizing the potential damages caused by fire incidents. By providing early warning, these systems facilitate the safe evacuation of occupants, reducing the risk of injuries and fatalities. Furthermore, they enable early notification to emergency services, aiding in a prompt response to extinguish the fire and mitigate further damage. Modern fire detection and alarm systems leverage advanced technologies, such as intelligent algorithms and wireless connectivity, to enhance their effectiveness.

Key words: *fire detection, alarm systems, smoke detectors, heat sensors, control panels, firefighting response, early warning, sirens.*

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LOW COST ULTRASONIC GLASSES FOR THE BLIND

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Abstract:

Visually impaired people often need assistance in day to day life for navigating through their residence and outside. Having a human assistance is not possible all the time and so a solution to this problem is being researched from a long time. Well here we develop a smart solution to this problem using ultrasonic glasses. Also the glasses are fitted with vibrator rather than a buzzer as constant buzzing sound would be more of a nuisance rather than help. This device includes a pair of glasses and an obstacle detection module fitted in it in the center, a processing unit, an output device i.e. a beeping component, and a power supply. The Obstacle detection module and the output device is connected to the processing unit. The power supply is used to supply power to the central processing unit. The obstacle detection module basically consists of a ultrasonic sensor, processing unit consist of a control module and the output unit consists of a buzzer. The control unit controls the ultrasonic sensors and gets the information of the obstacle present in front of the man and processes the information and sends the output through the buzzer accordingly

Key words: *Buzzing, residence, detection module, ultrasonic sensors.*

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LASER HOME SECURITY SYSTEM

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Abstract:

Security is a most important factor today. Technology develops day by day in the world. The crime gang also improves their technology to perform their operation. So technology of security should be modern with time to protect the crime works. We decide to make a security project as our project. In this project we have used laser light to cover a large area. We know laser light goes through long distance without scattering effect. It's also visible only at source and incident point, otherwise invisible. These two properties help us to build up a modern security system, which may name as "laser security". When any person or object crossover the laser line the security alarm will ringing and also the focus light will "on" to focus the entrance of unauthorized person. LASER-Ray goes through long distance without scattering effect and the Ray is almost invisible. Only the radiation point and incident point is visible. So by this security project we can make an invisible boundary of a sensitive area. There is two part of the system. One is transmitter and other is receiver. The transmitter part is built with a LASER radiator, a pair of dry cell batteries, an on-off switch and a stand to hold it. The receiver side, there is a focusing LDR (Light depending Resistor) sensor to sense the LASER continuously. The LDR sensor also holds with a stand and it connected with the main driver circuit. The circuit has two parts.

Key words: Laser security system, atmega16, LDR, home Automation.

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WIRELESS MOBILE BATTERY CHARGER

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Abstract:

Emerging technologies are making our life simpler these days. With the introduction of mobile phones, life has changed rapidly. This is a dream of radio engineering. Mobile phones merged land line telephone systems. These days, much advancement in the mobile phones was introduced. These advancements provide many services such as text, internet etc. But although there is much advancement in the technology, we still rely on the wired battery chargers. Each phone will have its own designed battery charger. Thus the battery chargers are required to carry everywhere to keep the battery backup. Now just think of a battery charger that charges you're mobile automatically. When you sit for tea and place your mobile on the table, it simply charges you're mobile. This article explains a simple wireless battery charger circuit that charges your mobile when placed near the transmitter. This circuit may be used as wireless power transfer circuit, wireless mobile charger circuit, wireless battery charger circuit, etc.

This circuit mainly works on the principle of mutual inductance. Power is transferred from transmitter to the receiver wirelessly based on the principle of "inductive coupling". Inductance is the property of the conductor, in which the current flowing in a conductor induces a voltage or electromotive force in it or in another nearby conductor.

Key words: wireless battery, wireless power transmitter, inductance.

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NIGHT VISION ENHANCER

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Abstract:

This paper describes the various Night vision techniques. "Night Vision" is referenced as technology that provides us with the miracle of vision in total darkness and the improvement of vision in low light environments. This technology is an amalgam of several different methods each having its own advantages and disadvantages.

The most common methods described here are Low-light Imaging, Thermal Imaging and Illumination. This paper also give brief idea about various night vision device(NVD) that allows images to be produced in levels of light approaching total darkness, it also explains various applications where night vision technology is used to solve various problems due to low light conditions. Whether by biological or technological means, night vision is made possible by a combination of two approaches: sufficient spectral range, and sufficient intensity range. Humans have poor night vision compared to many animals, in part because the human eye lacks a tapetumlucidum. A night vision device (NVD) is an optical instrument that allows images to be produced it levels of light approaching total darkness. The term usually refers to a complete unit, including an image intensifier tube, a protective and generally water-resistant housing, and some type of mounting system.

Keywords: *night vision technology, image intensifier tubes.*

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CREATING AN AUTO LOGIN BOT WITH PYTHON

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Abstract:

We are going to see how to build a simple auto-login bot using python. In this present scenario, every website uses authentication and we have to login by entering proper credentials. But sometimes it becomes very hectic to login again and again to a particular website. So, to come out of this problem lets, built our own auto login bot using python. We will be using selenium (python library) for making the auto-login bot. Python Selenium library helps us to access all functionalities of Selenium WebDriver like Firefox, Chrome, Remote etc. First of all, we have to install selenium using the below command: pip install selenium. After successful installation of selenium, we also have to install chrome driver for accessing the chrome web driver of selenium.

Keywords: selenium, web-drivers, library, browser.

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HOTEL MANAGEMENT SYSTEM USING PYTHON

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Abstract:

Hotel management staff refers to the individuals who are responsible for managing the operations of a hotel or hospitality establishment. This includes various positions, such as general managers, front desk managers, housekeeping managers, food and beverage managers, and more. General managers are responsible for overseeing all aspects of the hotel's operations, including staff management, financial management, marketing and sales, and guest satisfaction. Front desk managers are responsible for managing the reception area and ensuring that guests receive excellent customer service. Housekeeping managers are responsible for ensuring that the hotel's rooms and common areas are clean and well-maintained. Food and beverage managers oversee the hotel's restaurant and banquet facilities, including menu planning, staffing, and customer service

Keywords: *digital library, bar-code, online, offline, identification number, website.*

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ARCADE GAME DESIGNED USING PYTHON

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Abstract:

Arcade video games were first introduced in the early 1970s, with Pong as the first commercially successful game. Arcade video games use electronic or computerized circuitry to take input from the player and translate that to an electronic display such as a monitor or television set. Computer games are a great way to introduce people to coding and computer science. While Python makes learning to code more accessible for everyone, the choices for video game writing can be limited, especially if you want to write arcade games with great graphics and catchy sound effects. For many years, Python game programmers were limited to the pygame framework. Complete installation instructions based on your platform are available for Windows, Mac, Linux, and even Raspberry Pi. Like pygame, arcade code runs on almost every platform that supports Python. This requires arcade to deal with abstractions for various hardware differences on those platforms. Understanding these concepts and abstractions will help you design and develop your own games while understanding how arcade differs from pygame will help you adapt to its unique point of view.

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Online Price Comparison System Using Python

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M SRAVANTHI,

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Abstract:

Every shopper looks for the best deals & discounts before buying any product. Nowadays before purchasing anything the buyers do some online research of the products on the internet. One of the major factors which lead to purchasing of any product is cost or pricing. The buyers tend to compare prices before purchasing any product. This price comparison website for products will help to compare the price from various e-commerce websites, This Price comparison site is extremely helpful for frequent online shoppers to check prices on different online stores in one place. This system will show you the product prices from different retailers to show you where to buy the product at affordable price, Any two static websites classes are analysed to get the pricing details, To get the pricing details, the system visits the website based on user's search and downloads the html search page of that specific website, Once prices from both the websites are retrieved, it is displayed on our website in the form of price comparison.

Keywords: online markets; price comparison sites; competition; price dispersion;

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SUPER MARKET ONLINE BILLING SYSTEM USING PYTHON CODE

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ABSTRACT :

The project is on Supermarket Billing. Supermarket is the place where customers come to purchase their daily using products and pay for that. So there is a need to calculate how many products are sold and to generate the bill for the customer. In our project we have 3 users. First is the data entry operator who will enter the products in database. Second one is the administrator who will decide the taxes and commissions on the products and can see the report of any product. Third one is the bill calculating operator who will calculate the bill and print. To make software fast in processing, with good user interface so that user can change it and it should be used for a long time without error and maintenance. Work in the Supermarket will be done in the following way. The product will come in the store. Data entry operator will enter the information of the product in database. The Administrator will enter the taxes and commissions for each product. The customer will come and take the basket with him/her and choose the product and took it to the counter. The bill calculating operator will check the products with the bar code detecting machine then it will match with product-id then it will show its information and price and the bill will be calculated and total payment will show. Customer will pay for the products.7) All the products will be packed and delivered to the customer.

Keywords: product, supermarket,database, customer

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A Python-based Solution for Efficient Attendance Management

RUSHIVARDHAN

VARSHITH

SHIVA

VISHWA TEJA

Abstract:

The attendance tracking process plays a crucial role in various organizations and educational institutions, enabling efficient monitoring of individual participation and overall performance. The Attendance Tracker developed using the Python programming language, which offers an automated and streamlined approach to attendance management. The Attendance Tracker leverages the power and flexibility of Python, along with its rich ecosystem of libraries and frameworks, to provide a user-friendly and efficient attendance tracking system. The system is designed to handle diverse requirements and scales, making it suitable for small classrooms, large universities, corporate settings, and other similar environments. The Attendance Tracker presents a comprehensive and efficient solution for attendance management, empowering institutions and organizations to streamline their administrative processes.

Key words: Tracker, Attendance, Management

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PASSWORD GENERATION USING PYTHON

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Abstract:

Passwords are critical for authentication. This prevents unauthorized access to any website or portal where a possibility for misuse of information or identity theft persists. A password is a combination of lowercase, uppercase, symbols, and digits. An ideal or a strong password contains a combination of these four. The length is also crucial in determining a password's strength with the suitable length being above 10 characters unless specified otherwise. The python implementation of password generator project is using random and tkinter modules. This project is suitable for beginners who are starting with python. Python password generator requires no extra installation of modules. Random and string modules are predefined. Tkinter should already be available on your system since it is built-in. If importing generates an error, either reinstall python or use the command (for linux systems).

Keywords: Random,tkinter modules, password

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Hangman Game-Word guessing game

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Abstract:

The Hangman Game Python project is an interactive word guessing game where the player attempts to guess a secret word by guessing letters. The game provides feedback on correct and incorrect guesses, and the player has a limited number of attempts before losing the game. The Hangman Game project showcases several key programming concepts such as random number generation, conditional statements, loops, input handling, and string manipulation. It provides an opportunity for learners to practice these concepts while building a fun and interactive game.

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Vehicle-To-Vehicle Communication Using LI-FI Technology

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Abstract:

This paper presents the latest technology called as LI-FI which has been developing a lot in few years. Using the concept of LI-FI two vehicles are communicated with the help of LEDs bulbs with the help of transmitter and receiver circuit. With the help of this technology the road accident can be controlled and many human lives can be saved. A very chip device called as ultrasonic sensor which is used to measure the distance is used here just to communicate the two vehicles when they comes in the contact in some range which is preferred for the ultrasonic sensor. Using this LI-FI the data are transmitted from one vehicle to another.

The data that is transmitted through LIFI can be any data like audio, video or text. This technology was introduced few years back, which needs more systematic enquiry on its sustainability for traffic control purpose. This concept can be implemented at very low cost and with higher efficiency. At present, the day to day activities use lot of LEDs based lights for illumination, which can also be used for communication because of the advantages like fast switching, high power efficiency and safe to human vision. Hence, this project presents about eco-friendly data communication between vehicle to vehicle through visible light which consists of the white LEDs that transmit audio signals to the receiver.

*Corresponding Author: A Laxman Reddy

**Power 17-Transistor True Single -Phase Clocking Flip – Flop Designs with
45nm CMOS Technology.**

B SRIKANTH

CH HARIPRIYA

CHANDA KUMARI

NAINIKA

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Abstract:

Flip- Flops(FFs) are the fundamental storage components abundantly used in digital system designs which involves pipelining structure and modules built by FFs. The FFs contribute a major amount to total power consumption and significant amount to chip area of there digital system .so there is a need for low power and low area FF designs .in this paper low power 17 –True single-phase clock (TSPC) method of reasoning has found wide use in advanced plan. flip –flop in 45 nm CMOS is proposed .the logic structure of proposed TSPC FF of master – slave type in which master –stage is formed by static CMOS logic and slave informed by a mixed combination of static CMOS logic and complementary pass transistor logic .the proposed TSPC FF circuit is fully static because no internal nodes are in floating state during the operation which actually prevents leakage power dissipation .the proposed TSPC FF is designed by optimizing 17-transistor logic structure reduction flip –flop (LRFF) with respect to area and power consumption ,but without compromising the functionality of the FF. the design of three FFs namely transmission gate based flip –flop (TGFF),LRFF and proposed TSPC FF are implemented and simulated using gpdk 45 nm technology library with supply voltage vdd of 1v and clock frequency of 500mhz in DSCH and MICROWIND tool.

Keywords: *TSPC, VLSI, Flip-Flop, RAM, ROM, SRAM Implementation of Low*

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Effect of mobile-phone position on the visualand driving behavior

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Abstract:

This study aims to investigate the effect of the position of mobile phones used for navigation purpose on the driving performance and behavior of drivers. With the advancement of technology in recent times, drivers of mobile-application based taxi services (MABTS) use mobile-phones for providing service booking and navigation. Previous studies showed that the drivers place the in-vehicle mobile phone at various locations as per their choice. This behavior could severely affect their driving performance and visual behavior. Thirty drivers performed visual-manual tasks on mobile-phone located at different positions (left, right, front, and middle of the steering wheel) around the dashboard while driving in a simulated driving environment. Lane Change Test (LCT) assessed the driving behavior, and the eye-tracker measured the visual behavior. The outcome of LCT revealed that the best driving performance was achieved for mobile-phone located at the front of the steering wheel. The subjective workload rating score was highest, and driving performance was worst for the middle mobile phone position. The findings of this study show that the in-vehicle mobile phone position has a significant effect on the driving performance and visual behavior of the drivers. Insights drawn could be useful in drafting standard operating procedure for the MABTS drivers in particular and others in general.

Key words: *digital library, bar-code, online, offline, identification number, website.*

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Arduino Based Third Eye for Blind People

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Abstract:

Arduino based third eye or extra vision for blind people have a project which include both hardware and the software work and it helps the person to recognize the object by the help of ultrasonic waves which comes from ultrasonic sensor with a vibration which is generated by the buzzer. This Project is influenced by the Stick which is used by the blind people while walking for long term carry the stick is measure issue for weak people. So, this is the wearable invention for the weak and blind people they don't need to carrying anything in hand while walking they should only wear our invention and used to get walking easily. The Arduino is a software device which include. Coding as a software function and Ultrasonic sensor, buzzer, Battery and more things as a hardware function, Ultrasonic sensor has a work to recognize the object near t hem and providing the signal via buzzer to the user which help the person to reach properly at their destination. Main Term: Arduino Uno module, Vibration, Ultrasonic sense

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Smart Energy Efficient HIME Automation System Using IOT

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Abstract:

Advancement in IOT based application has become the state-of-the art technology among there searcher due to the availability of Internet everywhere. To make the application more user friendly, web based and android based technologies have gained their importance in this cutting edge technology. In this paper, smart energy efficient home automation system is proposed that can access and control the home equipments from every corner of the world. For this system, Internet connectivity module is attached to the main supply unit of the home system which can be accessed through the Internet. For wireless connectivity, the static IP address is used. Home automation is based on multimodal application that can be operated using voice recognition command of the user using the Google Assistant or through a web based application.

Keywords: *edge technology, IOT, module*

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Fire Detection and Prevention Using Machine Learning

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Abstract:

Fire incidents have been a significant threat to both human safety and property for centuries, demanding effective fire detection and prevention strategies. The advent of machine learning techniques offers promising solutions to enhance the efficiency and accuracy of fire detection and prevention systems. This abstract outlines the application of machine learning algorithms in fire detection and prevention, presenting an overview of various methodologies, challenges, and future prospects.

The first part of this abstract discusses the importance of fire detection and prevention and highlights the limitations of traditional methods. Subsequently, it delves into the potential of machine learning, which leverages data-driven approaches to develop intelligent systems capable of early fire detection and efficient preventive measures.

The second section explores the different types of machine learning algorithms employed in fire detection and prevention. Supervised learning models, such as Support Vector Machines (SVM), Random Forests, and Neural Networks, are commonly utilized for fire detection from images, videos, and sensor data. Unsupervised learning techniques like clustering algorithms help analyze historical fire incidents, identifying patterns and trends for preventive planning. Additionally, reinforcement learning assists in optimizing fire prevention strategies, enabling adaptive decision-making.

Keywords: *Random Forest, machine learnings, fire detection*

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IOT BASED INPLANATBLE AI PILL (Tablet) DEVELOPMENT FOR MEDICINE TRACKING

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Abstract:

Digital pill is basically a multichannel sensor used for remote biomedical measurements using micro technology. This is used for the real-time measurement parameters such as temperature, pH, conductivity and dissolved oxygen. The sensors are fabricated using electron beam and photolithographic pattern integration and were controlled by an application specific integrated circuit (ASIC). This paper proposes a smart pill with remind and consumption function. Which is used to give alert the user to take pills at a particular time and the pills required to take at that time comes out to the user to avoid confusion among medicines. Smart pill box can reduce elderly family member's responsibility towards giving the correct and timely consumption of medicines. This system Get the feedback about pills from the user and Send purchase order to medical shop.

Keywords: *integrated circuit, photolithographic*

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The Horizon Bank-Python Dictionaries

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Abstract:

Decades before, most of the banks used to maintain the details of their customers in a record book or in an excel sheet in a computer. This is not so reliable as compared to today's revolutionary growth of technology in almost all of the fields. There is also a negative side in today's growth of technology i.e., the increasing cybercrimes all over the world.

Do you know, in earlier days we need to stand in a long queue for hours in banks to deposit (a sum of money paid into a bank account) or withdraw (a sum of money withdrawn from a bank account) or to create a new bank account? But nowadays with the growth of technology, users can create and maintain their bank account or pay their electric bills, phone bills by sitting in their homes. All they need is a smartphone and internet. Now, a new bank called Horizon Bank decides to update their banking model from old excel sheets to the latest technology and require a sample project of a bank model. Let us help them in creating this bank application.

Keywords: Revolutionary growth, Cybercrimes, Horizon bank.

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SIMPLE ATTENDANCE TRACKER USING PYTHON

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A. AKASH REDDY

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Abstract:

Student attendance management system deals with the maintenance of the student's attendance details. It generates the attendance of the student on basis of presence in class. It is maintained on the daily basis of their attendance. The staffs will be provided with the separate username & password to make the student's status. The staffs handling the particular subjects responsible to make the attendance for all students. Only if the student present on that particular period, the attendance will be calculated. The student attendance reports based on weekly and consolidate will be generated. The student, he has less privilege to the access of the system; the student can only view his own record by providing his username and password. He will be able to see the percentage of his attendance as well as his results. If any comment or change of class schedule the student can see in his own profile only. This user can receive alert/message from his teachers related to his attendance performance. It is obvious that students with poor performance.

Key words: attendance performance, consolidate, providing.

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HANG-MAN GAME - WORD GUESSING GAME

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Abstract:

The Hangman Game Python project is an interactive word guessing game where the player attempts to guess a secret word by guessing letters. The game provides feedback on correct and incorrect guesses, and the player has a limited number of attempts before losing the game. The Hangman Game project showcases several key programming concepts such as random number generation, conditional statements, loops, input handling, and string manipulation. It provides an opportunity for learners to practice these concepts while building a fun and interactive game.

Key words: Random choice, input handling, letter guessing.

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PASSWORD GENERATOR

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B. AJAY KUMAR

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ABSTRACT:

Habitually, access to computer systems is based on the use of alpha – numerical passwords. Password affords the foremost line of protection against illicit access to computer. Password security is of course only one factor of overall system security. Even though it is an essential component, passwords are measured as the fragile link in computer security. Most users will make use of simple passwords. Simple passwords are easy to memorize, but in the same sense easy to crack!! However, the common user is likely to use simple password and more often the same password for different login. This makes them vulnerable to various types of cyberattacks. To Create/generation of password using Markov chain techniques. The tree structures of creation/generation of password using Markov chain Techniques are also specified.

Keywords: System Security – Alphanumeric password – Graphical password – Biometric authentication – vulnerabilities – cracking Markov Chain

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LIBRARY MANAGEMENT SYSTEM

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BH.D.M.V.S.S. SARMA

B. CHANDRA SHEKAR

B. VISHWA THANUJ

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Abstract:

The purpose of this project is to develop a Python program for a library management system that automates various aspects of managing and organizing a library's resources. The program utilizes the Python programming language to provide an efficient and user-friendly solution for librarians and library staff. The Library Management System Project in Python is an important piece of software that is used in school and college libraries to add new books, lend books to students, and keep track of which books have been returned.

The library management system is designed to handle tasks such as book cataloguing, member management, borrowing and returning books, and generating reports. The program aims to simplify and streamline these processes, ensuring accurate and efficient management of library resources. overall, the python program for library management system offers a comprehensive solution for efficient and automated library operations.it simplifies tasks related to book cataloguing, member management, borrowing, and returning books, while providing valuable insights through reporting and analysis. this program enhances the overall effectiveness and organization of library management, contributing to an enhanced user experience for library staff and members

Keywords: Book borrowing and returning, fines and penalties, reporting and analysis, security and access control.

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BODY MASS INDEX(BMI)-CALCULATION

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Abstract:

BMI, short for Body Mass Index, is a measure of relative weight based on the mass and height of an individual. We generally use the Body Mass Index in order to categorize people on the basis of their height and weight. These categories are underweight, healthy, overweight, and even obesity. Moreover, it is also adopted by various countries in order to promote healthy eating. We can consider Body Mass Index (BMI) as a substitute for direct measurements of body fat. Two variables as the height and the weight which uses the input () function to accept input from the user. We have also included the float () function outside the input () function in order to convert the input string into the float data type so that we can perform calculations with it.

Keywords: The height, the weight, input (), output (), underweight, healthy, overweight, obesity

*Corresponding Author: Ch. Manasa

NUMBER GUESSING GAME

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E.VASHNAVI,

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Abstract:

This program titled 'NUMBER GUESSING GAME' this is a PYTHON based GUI program implements a Number Guessing Game, where the player is provided with set of Rules/Instructions, later the player needs to guess the number between 1 and 100. The program provides hints to the player based on whether the guess is higher or lower than the actual number. The player gets 10 points for each play, but points get depleted for every wrong guess. The game ends when the player either guess the number correctly or loses all the points. The program also displays the number of guesses made by the player, the time taken to guess the number and the final score.

Key words: Game, python programming, GUI.

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TIC-TAC-TOE GAME

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G. SRI TEJA,

G. ARAVIND,

G. PRVALIKA

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Abstract:

Tic tac toe Python, also known as Noughts and Crosses or Xs and Os, is a very simple two-player game where both the player gets to choose any of the symbols between X and O. This game is played on a 3X3 grid board and one by one each player gets a chance to mark its respective symbol on the empty spaces of the grid. In the tic tac toe Python game that we shall be building, we require two players. These two players will be selecting their respective two signs which are generally used in the game that is, X and O. The two players draw the X and O on an alternative basis on the 3x3 grid having 9 empty boxes. The game is played by drawing X and O in each box one by one for each player. The player who chose X starts the game. Once any player is successful in marking a strike of the same symbol either in the row-wise or column-wise or diagonally way as shown in the picture below is created that player wins the game else the game goes on a draw if all the spots are filled.

keywords: Noughts, Crosses, 3*3 grid, strikes.

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STREET LIGHT CIRCUIT

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ABSTRACT:

This abstract provides a summary of a street light circuit experiment conducted to demonstrate the principles of automatic lighting control and energy efficiency. The objective of the experiment was to design and implement a circuit that automatically controls the switching on and off of a street light based on ambient light levels. The experiment began by researching and understanding the basic concepts of light-dependent resistors (LDRs) and their behavior in varying light conditions. A circuit was designed using an LDR, a transistor, a relay, and other necessary components to achieve the desired automatic control. The implementation involved connecting the LDR to the base of the transistor, which acted as a switch. When the light falling on the LDR exceeded a certain threshold, the resistance of the LDR decreased, causing the transistor to conduct, energizing the relay and turning the street light on. Conversely, when the light levels fell below the threshold, the LDR's resistance increased, causing the transistor and turning the light off.

KEYWORDS: Automatic light, LDR, Transistor, Threshold, Resistance.

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STUDY OF WATER LEVEL INDICATOR ANALYSIS IT'S WORKING

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Abstract: The water level indicator project aims to address the need for an efficient and cost-effective system to monitor and manage water levels in various applications such as reservoirs, tanks, and wells. The project focuses on developing a reliable and user-friendly device that provides real-time information about the water level, enabling users to take proactive measures to prevent overflow or depletion. The proposed water level indicator system utilizes sensors and microcontroller-based circuitry to accurately measure and monitor the water level. The sensors are strategically placed at different levels within the water container or reservoir, and they detect the presence or absence of water at each level. The information obtained from the sensors is then processed by the microcontroller to determine the water level and display it on an LCD or LED display panel. To enhance the functionality of the water level indicator system, additional features can be incorporated. These may include audible alarms or notifications to alert users when the water level exceeds predefined thresholds, allowing for timely actions to avoid potential damages or shortages. Furthermore, the system can be designed to be compatible with wireless communication protocols, enabling remote monitoring and control through a mobile application or web interface.

Keywords: *Remote monitoring, web interface*

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Paper ID: ICCIASH-2023/C64

STUDY OF LI-FI TECHNOLOGY-ANALYZE IT'S WORKING AND CONVEY CHANGES.

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Abstract:

Li-Fi, short for Light Fidelity, is an emerging wireless communication technology that utilizes visible light to transmit data, offering an alternative and complementary solution to traditional radio frequency-based systems such as Wi-Fi. This paper provides an overview of Li-Fi technology, its underlying principles, advantages, challenges, and potential applications. The paper begins by explaining the basic principles of Li-Fi, which involve the modulation of light signals to carry information. By utilizing light-emitting diodes (LEDs), data can be encoded and transmitted through rapid changes in light intensity that are imperceptible to the human eye. The concept of Li-Fi enables high-speed, secure, and reliable data communication in various environments, including indoor settings and areas with radio frequency restrictions. One significant advantage is its potential for significantly higher data transfer rates compared to traditional WIFI, as visible light has a larger available bandwidth. Li-Fi also offers improved security, as light signals are confined within the physical boundaries of a room, providing inherent isolation and reducing the risk of eavesdropping. Additionally, Li-Fi exhibits immunity to electromagnetic interference, making it suitable for sensitive environments such as hospitals and aircraft.

Keywords: *Light emitting diode, wireless fidelity, light fidelity, visible light communication, radio frequency, high speed.*

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Study of Fire Sensor Alarm - Analyse It's Working and Convey Changes

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Abstract:

Fires pose a significant threat to life, property, and the environment. The early detection of fire incidents is crucial to mitigate their devastating effects. In recent years, advancements in technology have led to the development of intelligent fire sensor alarm systems capable of promptly identifying fires and alerting occupants, enabling them to take immediate action to ensure their safe. This abstract presents an overview of a state-of-the-art fire sensor alarm system designed to provide effective early fire detection and alarm capabilities. The system employs a combination of advanced sensors, intelligent algorithms, and communication technologies to detect and respond to fire incidents in a timely manner. The fire sensor alarm system incorporates various sensors, including smoke detectors, heat detectors, and gas sensors, strategically placed throughout the protected area. These sensors continuously monitor the environment for any signs of fire, such as smoke, elevated temperatures, or the presence of specific gases associated with combustion

Key words: *smoke detectors, heat detectors, and gas sensors*

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STUDY OF TOUCH SENSOR - ANALYSE IT'S WORKING AND CONVEY CHANGES

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Abstract:

The touch sensor is a simple and cost-effective solution for detecting human touch and can be utilized in various applications, such as user interfaces and proximity sensing systems. The touch sensor circuit consists of a 555 timer IC, a few passive components, and a conductive pad. The 555 timer IC is configured in a monostable mode, which means it produces a single pulse of a fixed duration in response to a triggering event. In this case, the triggering event is the human touch on the conductive pad. When the conductive pad is touched, it creates a change in the capacitance of the circuit, causing a momentary voltage drop. This voltage drop triggers the 555 timer IC, which generates a pulse with a predetermined duration. The pulse can be adjusted by selecting appropriate resistor and capacitor values in the timing circuit of the 555 timer IC. By implementing the touch sensor circuit on a breadboard, it becomes easily accessible for prototyping and experimentation. The breadboard provides a convenient platform for connecting the various components and testing different configurations without the need for soldering.

Key words: 555 Timer IC, Breadboard, 9v battery with holder 2 L.E. D's and 4 pins as 'Touch Plates'

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MOTORIZED PROPELLER

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Abstract:

The “MOTORIZED PROPELLER” project involves creating a simple motorized device that uses a DC motor to generate airflow or rotational motion. The project requires selecting an appropriate DC motor and designing a fan or propeller system. The motor is integrated into the system, either directly coupled to the fan/propeller or connected via a gearbox or pulley system to achieve the desired speed and torque. Control of the motor can be achieved using a basic on/off switch or advanced speed control methods.

Simple speed control can be implemented using a potentiometer, allowing manual adjustment of the motor speed. Alternatively, pulse-width modulation (PWM) techniques can be utilized to vary the motor's power input and control its speed. To demonstrate the project, the motorized fan or propeller is connected to a power source, and the motor is activated to generate airflow or rotational motion. The project can be expanded by adding additional features such as temperature-based speed controller or remote-control operation.

Keywords; PWM, Dc motor, Fan/Propeller, potentiometer

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STUDY OF EARTHQUAKE ALARM- ANALYSE IT'S WORKING

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Abstract:

Early Warning System for Enhanced Public Safety. Earthquakes pose significant threats to human life and infrastructure, underscoring the critical need for effective early warning systems. This abstract presents an Earthquake Alarm, an advanced early warning system designed to provide timely alerts and mitigate the potential consequences of seismic events. Leveraging advancements in sensor technologies, data analysis, and communication systems, the Earthquake Alarm aims to enhance public safety by offering reliable and real-time earthquake notifications. The Earthquake Alarm operates through a network of distributed sensors strategically placed in seismic-prone regions. These sensors continuously monitor ground vibrations and collect data in real-time. By analysing the seismic data using sophisticated algorithms, the system can rapidly detect the initial seismic waves associated with an earthquake, allowing for early identification of potential danger zones. Once an earthquake is detected, the Earthquake Alarm system initiate series of immediate actions. This abstract outlines the conceptual framework and objectives of the Earthquake Alarm system. It highlights the importance of early warning systems in mitigating the impact of earthquakes, emphasizing the potential benefits for public safety. Implementation challenges, technological considerations, and future directions for research and development are also discussed, underscoring the need for continued innovation in earthquake monitoring and warning systems to enhance disaster resilience on a global scale.

Keywords: sophisticated algorithms, sensor technologies, seismic waves.

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BIPOLAR LED DRIVER CIRCUIT

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ABSTRACT:

A bipolar LED driver circuit is an electronic circuit that controls the amount of current flowing through an LED. It uses a bipolar transistor to regulate the current flowing through the LED, which ensures that the LED operates within safe limits and does not burn out due to overcurrent. The circuit can be designed to operate with a wide range of input voltages and current levels, making it suitable for a variety of applications. Bipolar LED Driver circuit can be implemented using 8051 Microcontroller. The circuit is commonly used in LED lighting applications, such as automotive lighting, decorative lighting, and general illumination. A Bipolar LED is different from a regular Bi-color LED in the sense that a Bipolar LED has only two leads whereas a regular Bi-color LED has three leads.

KEYWORDS: Bipolar LED (two leads), Bi-color LED (three leads) ,8051 Microcontroller.

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Python-Based Custom QR Code Generation

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Abstract:

This Python code generation of QR codes specifically designed for websites. By leveraging the 'qrcode' and 'PIL' libraries, users can easily create customized QR codes for website URLs. This code provides adjustable parameters such as version, error correction level, box size, and border, offering flexibility in tailoring the QR codes to specific requirements. With seamless sharing and easy access to online content. This Python solution takes advantage of the capabilities of the 'qrcode' library, offering comprehensive functionality for generating QR codes, and the 'PIL' library, enabling image manipulation and saving. Users can effortlessly specify the desired parameters to create customized QR codes.

Key words: *QR code generation, websites URL, qrcode library, PIL library, and customization.*

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AUTOMATED BIRTHDAY WISHES

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Abstract:

Are you bored with sending birthday wishes to your friends or do you forget to send wishes to your friends or do you want to wish them at 12 AM but you always fall asleep? Why not automate this simple task by writing a Python script. Apart from this, also create an Excel sheet for containing records like this: Name, Email, Contact, Birthday, and Year. For the sending email part, we define a `sendEmail ()` function which will start a Gmail session, send the email, and quit the session. For the SMS part, we must have an account on www.fast2sms.com from where we will get an API key. This API key is used to send SMS over mobile numbers using your account on fast2sms then we create a `sendsms ()` function which will verify the API key and send SMS. In the driver code section, we read the data from Excel sheet and match today's date with any of the birthdays. If there is a match, we call the `sendEmail ()` and `sendsms ()` functions and also we add the current year in the Excel sheet. Also, we have used `ToastNotifier` from `win10toast` library to show desktop notifications once the e-mail and SMS has been sent successfully.

Key words: *Pandas, datetime, smtplib, time, requests, win10toast*

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FACE EMOTION DETECTOR AND RECOGNITION

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Abstract:

With the rapid growth in multimedia content among such content face recognition has got much attention especially in past few years. Face as an object consists of distinct features for detection; therefore, it remains most challenging search area for scholars in the field of computer vision an image processing. Eigen face, Artificial Neural Networks (ANN), Support Vector Machines (SVM Principal Component Analysis (PCA), Independent Compose Analysis (ICA), Gabor Wavelets, Elastic Bunch Graph Machine 3D morphable Model and Hidden Markov Models. The 21 century is a modern and scientific era in which lot of progress has been achieved as to expedite humans for accomplishing their tasks .In support of above statement. Nowadays use of computer technology has been an integral part of life. computers are being used in pyramids of applications .

Keywords: *Face recognition; illuminations; partial occlusion; pose invariance.*

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Weather Reporting System (Weather Forecast)

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Abstract:

The Weather Forecast Project Python is a console-based application written in the Python programming language. The project is open source, and it was made for novices who wish to learn Python. This Weather Forecast Python with Source Code can run in console mode, which means that you have to enter it manually. People can make smart choices about when and where to go on vacation – People's work schedules are so full that they rarely have time to rest or even spend time with each other. Most of the time, workaholics like this use their vacation time to go on a relaxing trip. The weather forecast helps keep people safe – When it rains a lot, rivers and other bodies of water flood, sending water into people's homes, gardens, and even public spaces. This affects a lot of people. If flooding comes out of nowhere, it can kill a lot of people. Weather forecasting is important in the transportation sector – There have been reports of ships turning over and planes crashing in different parts of the world. Most of the time, bad weather is the main cause of these kinds of accidents. Benefits of Agriculture – In the past, farmers lost a lot of money because of changes in the weather. Now, farmers use new technology to plan their schedules. Farmers can plan what to plant and when to plant it by looking at weather forecasts. This Weather Forecast Using Python is important because it predicts weather conditions to give people and organizations information, they can use to reduce losses caused by weather and improve societal benefits, such as protecting life and property, improving public health and safety, and helping the economy and quality of life.

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MOUNTAIN TO OPTICAL WIRELESS COMMUNICATION TECHNOLOGY

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Abstract:

Mountain Top Optical Wireless Communication Technology is an advanced method transmitting data through optical signals across mountainous regions. It harnesses the power of lasers and optical technology to establish high-speed and reliable communication links between mountain peaks or remote locations where traditional wired or wireless networks face challenge. This technology utilizes focused laser beams to transmit data over long distances, taking advantage of the line-of-sight communication principle. The laser beams are directed from one mountain peak to another, creating a direct optical link. The use of lasers allows for high bandwidth and low latency, enabling the transmission of large volumes of data with minimal delay. By utilizing laser beams, it establishes communication paths that are unaffected by geographical barriers. This technology is highly immune to electromagnetic interference since it operates in the optical spectrum. It is not susceptible to radio frequency interference or signal degradation caused by atmospheric conditions such as rain or fog. This ensures a stable and uninterrupted communication link, even in challenging weather conditions. Mountain Top Optical Wireless Communication Technology offers a reliable, high-speed, and resilient communication solution for mountainous environments. Its ability to overcome geographical barriers and provide robust connectivity makes it a valuable tool in enhancing communication and connectivity in challenging terrains.

Key words: *Laser beams, Optical wireless communication, Bandwidth, Latency.*

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EMP DEVICE BASED ON TESLA COIL

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SAHARIKA

SABIHA SULTANA

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Abstract:

The EMP-like (Electromagnetic Pulse) device, inspired by the principles of the Tesla coil. It utilizes a voltage multiplier, a copper coil, and an AC power supply to generate electromagnetic pulses. Drawing inspiration from the Tesla coil's design, the voltage multiplier circuit amplifies the input voltage, resulting in a high-voltage output. The copper coil, inspired by the primary and secondary coils of the Tesla coil, is strategically positioned to create a powerful magnetic field when energized by the amplified voltage. The AC power supply serves as the source of alternating current required for the operation of the device, akin to the power source for the Tesla coil. Similar to the Tesla coil, the device has the potential to generate electromagnetic pulses that can disrupt or damage electronic equipment in its vicinity. It is important to note that creating and using electromagnetic pulse devices have legal and ethical implications, as they can cause significant harm to electronic systems and infrastructure. It is crucial to exercise caution, adhere to applicable laws and regulations, and consider the potential impact on others when experimenting or utilizing such devices.

Key words: *EMP, Tesla Coil, Pulse, Voltage*

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SMART SHOPPING TROLLEY THAT FOLLOWS CUSTOMER

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Abstract:

These days, supermarkets have practically reached the print of development in terms of technology. People buy various items from supermarkets and place them on a trolley because that is the simplest way to transport goods in supermarkets. However, customers must manually push the cart throughout the entire shopping experience, and when it comes to paying their bills, they must stand in line for a long time. The busy schedules of people make this a time-consuming process. The research team has developed an efficient and highly advanced technique to avoid these issues. There isn't a true multifunctional automated trolley to make shopping easier, despite the fact that several smart trolleys already exist that include some of the aforementioned features. The "follow me" created a multipurpose cart that makes customers shopping experience more simple and easy. Follow me is a collection of technologies, including autonomous, hand guided navigation using and Arduino micro-controller. A precise, user friendly smart shopping cart has been made available by the to make it easier and more convenient for customers to shop.

Key words: *Follow me, Super market, Smart trolley, Raspberry pi.*

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BARRIER ELUSION ROBOT

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Abstract:

The barrier elusion robot is an autonomous system designed to navigate and overcome obstacles. With advanced sensors and computational algorithms, it detects and assesses barriers, utilizing techniques such as computer vision and depth sensing. Equipped with cameras, LiDAR, and ultrasonic sensors, the robot accurately perceives its environment, estimating barrier properties. Its control system devises navigation strategies, employing maneuvers like climbing and jumping, while its mechanical design incorporates extendable limbs and grippers for efficient barrier elusion. Extensive simulations and physical prototypes have demonstrated the robot's adaptability and effectiveness in complex environments. The barrier elusion robot offers a promising solution for scenarios where traditional robots face limitations. Its capabilities in perceiving barriers, planning strategies, and successfully overcoming obstacles make it a valuable tool for applications such as search and rescue, industrial automation, and hazardous environment exploration. Ongoing research and development in this field are expected to further enhance the robot's capabilities and expand its potential applications in the future.

Key words: *LiDAR, Ultrasonic sensor, Robot.*

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Python Countdown: A Versatile Time Management Tool

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Abstract:

The Python Countdown is a powerful and versatile time management tool designed to facilitate countdown operations in various applications. Developed using the Python programming language, this tool offers a simple yet robust solution for tracking and managing time intervals. The countdown functionality provided by the Python Countdown enables users to set specific durations and initiate countdown sequences with precision. Whether used for event planning, project management, or productivity enhancement, this tool empowers users to effectively manage time-based tasks and deadlines. The Python Countdown also supports multiple countdown instances, allowing users to simultaneously manage and monitor multiple time-sensitive activities. Its modular design and extensive library of functions enable seamless integration into existing Python projects or as a standalone application.

Keywords: *time-sensitive activities, alert mechanisms, user interactions, customizable.*

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Organ Donation system- Using python

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Abstract :

Organ donation is the donation of biological tissue or an organ of the human body, from a living or dead person to a living recipient in need of a transplantation. Transplantable organs and tissues are removed in a surgical procedure following a determination, based on the donor's medical and social history, of which are suitable for transplantation. Considering the anomalies in the existing system computerization of the whole activity is being suggested after the initial analysis. This Python-based system will help users to get organ donors and doctors. This system has two entities namely, Admin and User. Admin can log in using credentials. This system has been developed to help patients requiring organs get in touch with donors. This project is developed using Django Framework with Python as the programming language. Life Saver, Facilitator of Better Life Ease in finding an organ donor rather than searching in multiple hospitals.

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Study of ticket booking system

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ABSTRACT:

Online ticket booking has revolutionized the way people purchase tickets for various events, including movies, concerts, sports matches, and more. This abstract explores the concept of online ticket booking and its significance in today's digital era. It highlights the benefits and convenience offered by online ticket booking platforms, such as easy accessibility, time-saving capabilities, and a wide range of options. The abstract also discusses the underlying technologies and features that enable seamless ticket booking experiences, such as secure payment gateways, interactive seating maps, and real-time availability updates. Additionally, it delves into the challenges faced by online ticket booking systems, including fraudulent activities and ticket scalping, and the measures implemented to address these concerns. Overall, this abstract emphasizes the transformative impact of online ticket booking on the entertainment industry, empowering individuals to effortlessly secure their desired tickets and enjoy unforgettable.

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Game Of Rock, Paper, Scissors
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Abstract:

The "Rock Paper Scissors" Python project is an interactive command-line game that allows users to play the classic game of Rock, Paper, Scissors against the computer. The objective of the game is to choose one of the three options: rock, paper, or scissors, and try to defeat the computer's choice based on the established rules of the game. The project utilizes the principles of object-oriented programming in Python, employing classes and methods to implement the game logic and user interaction. The game prompts the user for their choice, validates the input, generates a random choice for the computer, and determines the winner based on the predefined rules. The program keeps track of the user's score and displays it at the end of each round. The "Rock Paper Scissors" Python project serves as an excellent exercise for beginner-level programmers to practice core programming concepts such as conditionals, loops, functions, and random number generation. It also demonstrates the simplicity and versatility of Python in implementing interactive games.

Key words: *Rock Paper Scissors, Python project, Beginner, Simple, User Interactive.*

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Live chat - speech text application

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Abstract:

Live chat-speech text Application Speech Recognition is an important feature in several applications used such as home automation, artificial intelligence, etc. This article aims to provide an introduction on how to make use of the Speech Recognition and pytsx3 library of Python. First, we need to import the library and then initialize it using init() function. This function may take 2 argument finally, t Speech is the most common means of communication and the majority of the population in the world relies on speech to communicate with one another. Speech recognition system basically translates spoken languages into text. There are various real-life examples of speech recognition systems. For example, Apple SIRI which recognize the speech and truncates into text .o run the speech we use runAndWait() All the say() texts won't be said unless the interpreter encounters runAndWait().

Keywords:- *Speech Recognition, Python, Artificial Intelligence.*

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SKIN CARE QUIZ AND PRODUCTS.

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Abstract: The skin care is a practice that involves taking care of your skin to maintain its health, appearance and overall well being. It encompasses a range of the daily activities, products and routines to keep the skin clean. As most of the people are know only the steps to follow like gentle cleansing, to use face masks and face moisturisers. They are different skin types like oily skin, dry skin and combination of both skin types. They don't know how to treat them. The proposal system gives the information for the skin care quiz and suggest the products as this topic includes the types, concerns and preferences of skin. We use the learning programs like functions, dictionary, lists to do quiz. We use the functions to do quiz like asking the questions to the customer like what does your skin looks like and according to that the system will suggest like what type of face masks they should use. Dictionary and lists are used for like showing the products like what type of serums they should be using according to the answers related to quiz. And this will help the customers to choose what type of products they should use for their skin types .According to answers the customers give, the program will show the products .which will be effective to the customers skin care and it will also help them to get healthy skin.

Keywords: *cleanser, serums, dictionary, moisturisers, set, tuple.*

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OFFLINE VS ONLINE SHOPPING

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Abstract:

In today's digital age, information about offline and online shopping is readily available through various sources. Both offline and online shopping have different consumer preferences and needs.

In offline shopping Physical stores have set operating hours, which may not always with your schedule. This can be inconvenient if you have a busy lifestyle or work during the store's open hours. Offline shopping requires traveling to the store, which can be time-consuming and may involve traffic or transportation issues. If you're looking for specific items or products, you may have to visit multiple stores to find what you need. Comparing prices across different stores can be more time-consuming offline compared to online. Online shopping allows you to quickly compare prices from various retailers, ensuring you get the best. Offline shopping can involve dealing with crowds, especially during busy shopping seasons or weekends. Offline shopping may not provide as much detailed information about products compared to online shopping. whereas online shopping offers detailed specifications, customer reviews, and ratings to make informed decisions.

Key words:*Dictionary, Tuple, Set, List, Products*

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**IDENTIFICATION OF FUNDAMENTAL DATA
STRUCTURES FOR MANAGEMENT OF A SPORTS/GAME
TEAM**

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ABSTRACT:

The management of a team is a really time consuming and lot of work due to many changes made in the team after playing a game such as substituting a player in place of other teammate for his inconsistent performance in last match, replacing of a player due to injuries or sometimes changing the whole team players to try out new things and experiment on skills of new players. Earlier this is a tough job for management due to the constant re corrections in team.

Key words: *Dictionary, Set, Tuple, List, Structures*

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ARRANGEMENT OF FOOTWEAR

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Abstract:

The arrangement of footwear items is a common task in many applications. This abstract presents a Python implementation using four fundamental data structures: lists, dictionaries, tuples, and sets. The system aims to organize footwear into two categories: existing and proposal.

The existing system provides a foundation for managing footwear but lacks the sophistication needed to optimize organization and retrieval. Before the introduction of list, dictionary, tuple, set the organization of footwear is very difficult as it is hectic work for a human brain to organize and normalize all types of footwear as per the arrangement. The arrangement of footwear takes lots of time. Before the arrangement, to the shopkeeper it takes lot of time to find a footwear. The information of footwear is recorded manually and in the form of books, that information may miss due to any accidents.

The proposal system introduces a new concept of organizing footwear through the use of tuples and sets. The proposed system aims to enhance the efficiency of footwear and categorize existing items, while providing a mechanism to suggest new additions.

Key words :- *_organize, retrieval, efficiency, lacks, manually, Disctionary, Set, Tuple, List.*

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Password Manager

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Abstract :

This abstract presents a python implementation using four fundamental data structures : lists, dictionaries ,tuples ,sets . The existing system provides a foundation for managing password .Our brains are not well equipped to store and recalls dozens of complex , unique passwords for all online accounts . Remembering even a single complex password is a feat in itself . This is why many people resort to the unsafe ,risky practice of reusing the same often weak ,easy-to-recall password across their online accounts .A weak password is just as easy for criminals to hack as it is easy to remember. The proposal system introduces a new concept of organizing password manager through the use of lists, tuples , dictionaries, sets . Using a password manager is a far more effective and convenient mechanism for keeping track of your password .A good password manager will always include a strong password generator feature that will create them for you . A password manager have benefits beyond just storing passwords .You can use your password manager to securely store other items including credit card numbers identification documents , travel documents , medical records , pin codes , bank account numbers and secure notes . Many of the top managers also offer additional features like cloud storage and attachment password health reports , data breach notifications and dark web monitoring .

Key words: *Dictionary, set, list, tuple, password.*

*Corresponding Author: Aarthi Reddy

Employee Details Management System using python

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T.SakethReddy

Sainithish

Ranjitth

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ABSTRACT:

The existing system provides a foundation for Managing employee details is crucial aspect of organizational operations. This abstract presents a comprehensive Employee details management system developed using python programming language. The system offers a user friendly interface for efficient storage, retrieval, and manipulation of employee data within an organization. The system provides a user friendly interface for performing various operations related to employee details, including adding new employees, updating existing records, and generating reports. By leveraging the core principles of object-oriented programming and file handling in python, the application ensures the integrity and persistence of employee data. The system allows administrators or authorized personnel to create and maintain a centralized data base of employee details, encompassing personal information, job-related data, and contact details. It utilizes the concept of classes and objects to represent each employee with attributes and methods facilitating the management and manipulation of their data. These objects are serialized and stored in a file, ensuring that the information is retained and accessible even after program execution. The Employee details Management system offers a range of key features designed to enhance productivity and streamline administrative processes. First, the system enables seamless employee registration, allowing the addition of new employee records by capturing essential information such as name, designation, department, and contact details based on various criteria, including employee ID, name, or department. Finally, it improves data accuracy and enhances overall administrative efficiency.

Keywords: *Employee ID number, updated records, Database, Customization, Dictionary, Set, List.*

*Corresponding Author: Ch.Shivasaisrinivasan

PHONE CONTACTS MANAGEMENT SYSTEM

GALIPELLY DILEEP

VAGGU SRIHARI

SIDDARTH MALLICK

AKULA ADVAITH

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ABSTRACT:

The project aims to develop a phone contacts management system in Python that utilizes various data structures such as lists, tuples, dictionaries, and sets. The system will provide a user-friendly interface to store, retrieve, update, and delete phone contacts efficiently. The system will make use of lists to store the contact names, tuples to store the phone numbers associated with each contact, dictionaries to map names to phone numbers, and sets to ensure uniqueness of contacts. By leveraging these data structures, the system will offer fast and effective operations for managing phone contacts. The project will be implemented in Python, utilizing object-oriented programming concepts for a modular and maintainable code structure. The command-line interface will provide clear instructions to users, ensuring ease of use. Through the utilization of appropriate data structures and efficient algorithms, this project aims to provide an effective and user-friendly solution for managing phone contacts in Python. The project will be implemented in Python, utilizing object-oriented programming concepts for a modular and maintainable code structure. The command-line interface will provide clear instructions to users, ensuring ease of use.

Keywords: *Adding new contacts, Searching contacts, updating contacts, Deleting contacts, Displaying all contacts.*

*Corresponding Author: Galipelly Dileep

Management of the system of a Restaurant

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JASHWANTH

NAVEEN KUMAR

MANI VARMA

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ABSTRACT:

Using Data Structures in the Restaurant Management in Python, we will be having GUI using which we will be able to complete billing for any customer. Like we will be able to add items and we can Calculate the total bill of a customer. Restaurant Management using Python is a software Application that helps restaurant owners and managers to manage various items and things of their business like Orders, menu, employees and feedback to give to a better Service to their customers. We will be having many buttons like ADD Button by which we can store the data of the customer in the database, DELETE Button by which we can delete the record from the selected data. MENU Button by which we can show all items in the form of a menu which are available. RESET Button by which we can reset the stored data. And at last FEEDBACK Button by which customer can give ratings and feedback to our service.

Key words: *Dictionary, Set, List, Tuple, Menu.*

*Corresponding Author: K. Ameer Basha

**IDENTIFICATION OF FUNDAMENTAL DATA STRUCTURES FOR
MAKING OF TEAMS FOR CULTURAL EVENT.**

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V.Sneha Reddy
J.Sathvika
A.swetha**

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ABSTRACT:

Making of the teams is common task for every program or events. This abstract presents a python implementation using fundamental data structures: that are: LISTS, DICTIONARIES, TUPLES AND SETS. main aim of the system is that cultural secretary wants to prepare the list of students who want to perform different activities for an event. these are of two categories: existing and proposal. The existing system provides a foundation for managing the cultural activist team members. In order to organize the name of the students from each class through online in an easy way. Before the introduction of list, dictionary, tuple, sets the organization of names of different students for different cultural activity is difficult as it is big task for a human brain to organize and manage all types of activities .and it also takes lot of time. the information of the students is recorded manually in the form of books, the information stored manually is not permanent, it may miss due to some situations. the proposal system introduces a new concept of organizing the names of the students through the use of list, tuple, dictionary and sets.by implementing this system, cultural secretary can easily identify how many students are going to perform specific activities ,and addition of members to the specific activity and quitting from the specific activity. firstly, list provides list of student's data for cultural programs.it allows for easy addition, removal, and modification of elements.

Key words: Dictionary, Tuple, Set, List, Structures, Events.

*Corresponding Author: Ch.Ramani

EVALUATING EDUCATIONAL PROGRESS INFORMATION OF SCHOOL STUDENT'S REPORT CARD

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PULIVARTHI SANTHOSH KUMAR
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NEELAM THRILOK SAI

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ABSTRACT:

The school report card demonstrates how we can use lists, tuple, dictionary, and sets to represent student's information, subject marks, percentage and their position in class room. The school report card is a crucial tool for assessing and communicating a student's academic progress and performance. It provides an overview of the student's achievements, strengths, weakness and their improvement. Before the proposal school reports cards requires the dedicated efforts of teachers to accurate and up-to-date records of student's academic progress. Teachers play a crucial role in collecting, analysing, and documenting information to ensure that report cards reflect the student's performance accurately. The proposal is to develop a school report card system using python programming language, focusing on the utilization of dictionaries and lists. Utilise a dictionary to store the report card information for each students. Use a list to maintain a collection of student report cards. Each student's report card will be represented as a dictionary with the following key-value pairs. Name of the student is taken as key and whereas value is taken as marks. And all the marks of subject is taken in a list. In this proposal we will be using list and dictionary. In output we will be showing the student's marks, percentage, total marks and the position of a student in his class room. We can modify it according to our specific requirements, such as adding more subjects or including additional information in the report card. The dictionary will store all the information necessary for the report card. It will make it easier to access and modify data. Overall, it will be a more efficient and organized system.

Keywords: *Marks, percentage, average marks, rank, list.*

*Corresponding Author: Gharke Ramprasad

IDENTIFICATION OF FUNDAMENTAL DATA STRUCTURES FOR ONLINE FOOD ORDERING SYSTEM

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P. Amulya

G. Ramya

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ABSTRACT: The online food ordering system is designed for tasting different types of food from various restaurants. This abstract presents a python implementation using four fundamental data structures: list, tuple, dictionary and set. This system aims to order the food in an easy way. This was categorized into two types: existing, proposal. The existing system provides the best option to order the food. It is a popular business all over the world. In this restaurant list their food products and other relevant information about the food product. We can implement this program with the help of list, dictionary, set, tuple. This system overcomes the disadvantages of the queueing system. Instead of visiting the restaurants we can order the food and consume our valuable time. Before the online food ordering system, we had to compulsorily visit the restaurant to get the food and we had to taste it whether it tastes good or bad. The proposal system introduces a new concept of ordering food through an online line with the help of tuple, set. By implementing this system, users can easily track their food and update their existing order. The proposed system aims to enhance the efficiency of online food ordering by allowing users to order their favourite food from favourite restaurants. Firstly, the list data structure provides the quality and tasty food by the user's choice. It allows for easy addition and removal, modification of items.

Keywords: *online, food order, Delivery, restaurant, payment* .

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Transforming Communication: Exploring the Speech-enabled Innovative Robotic Speaker

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Ankan Das

Pranav

Melvin Santosh

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Abstract:

The robot speaker project aims to develop a Python-based application that can transform text into speech, allowing a robot or any other device to communicate with humans through spoken language. The application utilizes various Python libraries and tools to convert textual input into high-quality, natural-sounding audio output. This project focuses on three main components: text processing, speech synthesis, and audio playback. First, the text processing module receives input text and performs preprocessing tasks such as tokenization, language identification, and punctuation removal. This step ensures that the text is appropriately formatted for speech synthesis. By combining text processing, speech synthesis, and audio playback functionalities, the robot speaker project enables a robot or any other device to effectively communicate with humans through spoken language, enhancing user interaction and accessibility in diverse domains. The project will utilize Python libraries such as Speech Recognition, NLTK (Natural Language Toolkit), and pyttsx3 for speech synthesis. Existing robot speakers May not have the ability of emotion recognition, context awareness, multi-language support, speech synthesis, or customization, but here in our project features will result in an advanced robot speaker that can engage in natural, context-aware conversations with users, providing a more personalized and interactive experience.

Key words: *Dictionary, set, tuple, list, robot, functions.*

*Corresponding Author: Vineet Pandey

IDENTIFICATION OF BASIC CLOTHING STORE USING FUNDAMENTAL DATA TYPE

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KUTHURU KOUSHIK,
KATHROJU SHIVATEJA**

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ABSTRACT: This abstract provides an overview of a basic clothing store that aims to provide affordable, fashionable clothing options for a wide range of customers. The store focuses on simplicity, convenience, and accessibility, aiming to meet the fundamental clothing needs of individuals while delivering a satisfying shopping experience. The existing system of the clothing store consists of a physical retail space where customers can browse through a selection of clothing items. The store offers a variety of basic apparel essentials such as t-shirts, jeans, sweaters, and accessories. Customers can explore different sizes, colors, and styles to find garments that suit their preferences. The current system relies on traditional checkout processes and in-person customer service. The proposed system for the clothing store aims to enhance the overall shopping experience and streamline operations. The introduction of a user-friendly online platform will allow customers to browse and purchase items from the comfort of their homes. The proposed system will also include features such as size charts, detailed product descriptions, and customer reviews to assist customers in making informed decisions.

Keywords: *inventory, Dictionary, Set, List, tuple*

*Corresponding Author: Kommula Thirumala

DISCOUNT ZONE

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Abstract: The applying of discount on a bill is a major task for any billing in any type of store. this abstract presents a python implementation on application of discount using conditional statements by following all the intendations, syntaxes. abstract is mainly divided into two parts Before this phython implementation it would be a uphill task for any person at the bill counter to check all conditions and apply discount on the bill and it would make a large queue at the counter leading in troubles and increasing frustation among the customers. by manual method there are high chances of errors as the bill maker will be in huge pressure as the customers at the conter increases. After this phython implementation using the conditional statements it makes billing and applying of discount an easy task for any person at the bill counter .by using this python implementation, it quickly analyzes the conditions and applies the discount on the total bill. It also reduces the chances of errors .it provides the right amount of discount every time by checking the conditions.

Key words: *List ,tuple, set, dictionary, bill.*

*Corresponding Author: D.Shreyas

IDENTIFICATION OF FUNDAMENTAL DATA STRUCTURES FOR GROCERY STORE MANAGEMENT SYSTEM

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TEKULAPALLI SAIROHANREDDY
GANDU SAI

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Abstract: The Grocery store management system is a python-based application designed to facilitate effective management of grocery items. It can provide a efficient and user-friendly interface for organizing their grocery lists. Using the list data structure with features of adding items, removing items, updating items, editing items, viewing the grocery items and etc. The system utilizes a List, Set, and Dictionary for easy manipulation. To maintain some fixed data system utilizes the Tuple. The system enables users to easily add items to their grocery list by specifying the item name. Removal of items from the list is also straightforward, as users can input the name of the item they wish to remove. The system ensures data integrity by validating user input and providing appropriate feedback messages. The program employs a menu-driven approach to facilitate user interaction. Upon launching the system, users are presented with a menu that offers options to perform various actions. These options include adding an item, removing an item, and viewing the current grocery list, and quitting the program. This design enhances user experience and ensures a smooth workflow. The grocery management system prioritizes simplicity and convenience, aiming to streamline the grocery management process.

Keywords: *Grocery items, prices, document file, List, Dictionary.*

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VOTING SYSTEM FOR ELECTION

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L Shivani,
N Nithin reddy**

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Abstract:

The Voting System Implementation in Python is a program that allows individuals to participate in a simulated voting process. The system prompts users to enter their names and ages, and if eligible, they can vote for their preferred party from a list of options. The code handles multiple voters and stores the names and corresponding party choices. After the voting process concludes, the system displays the names of voters and the party they voted for. Additionally, the code determines the party with the highest number of votes and declares it the winner. The implementation showcases concepts such as user input handling, conditional statements, by using list we can add, delete, remove, we can add the person who is eligible for vote, we can delete the person who was expired. There is no rule that to vote to the particular party. Person who is eligible for vote has the right to vote for their preferred party. dictionary manipulation, and result analysis.

Keywords: *Voting system, Python, Eligibility, User input, Conditional statements, Dictionary, Result analysis.*

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**A RESEARCH STUDY ON THE INFORMATION TECHNOLOGY
SECURITY AND ENGAGEMENT OF STUDENTS USING E-
LEARNING PLATFORM.**

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Abstract

The technological revolution in education, particularly eLearning, is breaking the traditional classroom barriers to augment the intellectual growth of an individual. Mobile learning is predictable to cross \$78.5 billion worldwide by 2025, circumstances of the report by GlobeNewswire. With the rise in the number of smartphone users, the quantity of people opting for mobile education is also growing. Though, this trend is going to stay as mobile learning qualifies the users to learn new things at their convenience from anywhere. Adaptability and accessibility are also critical components that uplift the mobile learning trend. The study concentrated the students perusing their under graduation and post-graduation since this level of education is the period that decides their career. The study was conducted with 200 students those use e-learning platforms like Indiaeducation.net, Khan Academy, coursera, Swayam, and Byju's which was collected by random sampling method. The data collected through questionnaire was statistically analysed and inferred using SPSS version 21. The findings and conclusions revealed that they could learn multiple concepts and courses through online, also each individual is having independent in choosing their interested field. Apart from the profession degree course they pursue they have the option to choose their dream learning that provides earing while learnings in some cases.

Keywords: *E- learnings, IT Security, graduate students, post graduate students, learning process, Personalized learning.*

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Analysis of Channel Capacity for 5G Cellular System With mm-wave.

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SOS (E&T), Guru Ghasidas Central University
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Abstract:

Small cells, millimeter waves (mmW), and massive multiple-input multiple-output (MIMO) deployments have emerged as key technologies for mobile systems in the fifth generation (5G). In this paper, we have tried to find out the dependency of channel capacities for mm-wave and 6 GHz band of 5G systems depending on received SINR and distance between user and transmitting antenna. It has found that channel capacity of mm wave system is very high as compared to 6GHz system even at less value of SINR. The channel capacity of mm-wave decreases drastically as the distance between user and transmitting antenna increases as compared to 6 GHz system.

Keywords— *mm Wave, THz, Channel Capacity, Channel Frequency, SNR.*

*Corresponding Author: Ashutosh Pande

THE CORRELATION BETWEEN LANGUAGE & CULTURAL STUDIES – A STUDY

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Telangana

ABSTRACT: Language and culture studies are interdisciplinary fields that explore the dynamic relationship between language and society. They examine how language shapes and is shaped by cultural practices attitudes and values. In language studies researchers analyze the structure use and development of languages. They explore concepts such as phonetics and phonology (sounds and pronunciation morphology and syntax (word formation and sentence structure semantics and pragmatics (meaning and context and sociolinguistics (language variation and social factors).

Culture studies on the other hand investigate the shared patterns of beliefs behaviors customs and artifacts that characterize a particular group or society. This can include aspects such as religion arts music literature material culture social institutions and more. The goal is to understand how these elements influence the way people communicate interact and perceive the world.

Key Words: Language, Culture Studies, Corelation, intersection, Cultural Perception.

*Corresponding Author: S. Sita Mahalakshmi

Deep Learning in Diagnosis of Diabetic Retinopathy

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Abstract:

Diabetic retinopathy is a debilitating ocular condition that affects millions of people worldwide. Early detection and treatment of diabetic retinopathy can prevent vision loss, but traditional screening methods are time-consuming and resource-intensive. In recent years, the application of artificial intelligence (AI) in healthcare has grown rapidly, offering the potential to improve the diagnosis and management of diabetic retinopathy. This paper presents a comprehensive review of the deep learning based approaches in diabetic Retinopathy. This review is fivefold and focuses on Deep learning techniques, Dataset description, Evaluation parameters and comparison of the recent papers and future possible directions.

Key words: *Diabetic Retinopathy, Artificial Intelligence, Deep Learning.*

*Corresponding Author: Sahil Pulikal

DIGITALIZATION IN MARKETING –ROLE & IMPACT

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Abstract: Digitalization in marketing means using the Internet as a source of marketing business activities. Nowadays in this global world. every business organization has connected with digital marketing, in today's world without employing digitalization tools in marketing. It becomes very challenging to get succeeded and to get identity and profits, it is very difficult to achieve the goals. At present every business organization whether it may have small, medium, or large scale organizations have its marketing strategies to survive in this competitive world. due to this tool of digital marketing, it is easy for customers for ordering goods and to avail of the services by the home itself by clicking from their devices. The significance of digitalization in developing business ecosystems is growing day by day. This is cost-effective and highly affordable, especially for small or growing business organizations.

Keywords: *Digitalization, Eco-systems, Internet, Marketing, devices.*

*Corresponding Author: K. Mujakar

HIGHER SECONDARY SCHOOL STUDENT'S ACADEMIC PERFORMANCE CONCERNING THEIR EMOTIONAL STABILITY

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Dharwad, India

Abstract: The current study seeks to ascertain the association between personality traits such as emotional stability and academic performance among Telangana high school students. Students were chosen at random from several high schools in the chosen area. Cattell's Jr. High School Personality Questionnaire (HSPQ) was administered to 400 students (boys and girls), and an academic performance transcript was collected from the school record. Following that, the data was statistically assessed using percentage analysis and chi-square. The findings revealed a link between emotional stability and academic success among students in Telangana's Karimnagar district. According to the study, good emotional stability is associated with high academic performance, whereas low emotional stability is associated with low academic performance.

Keywords: *Emotional stability, academic performance, higher secondary school students*

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A
STUDY ON
SALES PROMOTIONS OF HYUNDAI MOTORS TOWARDS
ELECTRIC VEHICLES

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Abstract: Promotion is one of the four major elements of the marketing mix. Therefore, Sales promotions strategy consisting of a combination of promotional tools could be an essential element of the businesses' overall marketing strategy. Different promotional tools could foster an increased awareness of a company's products or services, inform people about features and benefits, and move them to make a purchase. In this light, this chapter examines these promotional tools, individually. It suggests that effective sales promotions plans promote the companies' products and services, by sending clear, consistent plans that are ultimately intended to turn prospects into customers. In conclusion, it posits that the marketing managers must consider the sales promotion strategies when they are preparing an marketing plan. The advancement of the global economy and technology has developed human civilization to a greater extent, it has also caused Massive damage to the global environment. solar energy, hydrogen fuel, and nuclear power are technically complex and cannot achieve mass production in a short period of time. Electric energy is a feasible energy solution at present, can solve the country's dependence on oil resources to a certain extent. As environment concern increases day by day and introduction of the new BS6 engines in India shows a great step in moving towards creating environment-friendly vehicles. But the problem of moving forwards at this pace in India is about the customer perceptive towards electric vehicles in India.

Keywords: *IMC, Promotional, strategies, global environment, BS6 engines, electric vehicles*

*Corresponding Author: S. Srinivas

Exploring the Impact of Emotional Intelligence on Job Satisfaction among Nurses in Private Hospitals in Hyderabad

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Gugulothu Sravanthi[#]

[^]LNCTU

[#]GITAM Deemed to be University

Abstract:

In Hyderabad's private hospitals, nurses' levels of job satisfaction are significantly influenced by their emotional intelligence. The general well-being and professional fulfilment of nurses are substantially influenced by their capacity to manage emotional difficulties, communicate well, and form strong bonds with others. Understanding the importance of emotional intelligence may help healthcare organisations create a positive workplace culture that ultimately improves nurse job satisfaction and the standard of patient care. The results show the value of emotional intelligence in healthcare settings and the advantages of introducing intense intelligence training into nursing education and professional growth. Increasing the emotional intelligence of nurses. Better speaking, problem-solving, and interpersonal abilities are traits of nurses with higher emotional intelligence. A nurse is better able to comprehend and manage her emotions when she possesses higher emotional intelligence. These abilities improve their interactions with clients, coworkers, and superiors, which ultimately makes them happier employees. Additionally, emotionally aware nurses are better able to manage the stress and emotional problems that are common in healthcare settings.

Keywords: *Organisations, Emotional Intelligence, Job Satisfaction, stress.*

*Corresponding Author: Shravani Balmore

Shift in Human Resource Management Practices and Policies of the Organizations in View of COVID-19 Pandemic

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Soniya

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Murthal, Sonipat-131039.

Abstract:

This research paper aims to review the responses of organizations during COVID-19 pandemic in terms of changes in human resource related policy and practices. COVID-19 has infused fear and caused work stress among employees. This research has referred the published research about human resource management during COVID-19 pandemic to summarize various changes in HR-policies and practices that have been pursued by organizations to reduce work stress and fear at workplace. This research study is exploratory in nature and it has been conducted with narrative review method which is a qualitative approach. The review of previous research studies has been conducted on the selected research papers. Only those research papers have been reviewed that were about COVID-19, recent pandemic and human resource management. The result of this paper is a conceptual model about COVID-19 Management within organizations through shift in HR practices and policies. This paper concludes that effective and timely change in practices and policy about employees' compensation, job, health and support were key to cope COVID-19 within organization.

Keywords: Human Resource Management, COVID-19, HR policies and Practices.

*Corresponding Author: Dr. Anju Sigroha

Enhancing the English Language Teaching and Learning Practices in Pre-University (Intermediate) and B.Tech Programs: A Comprehensive Study on the Influence of Information and Communication Tools, with a Special Focus on RGUKT, Andhra Pradesh”

Ganesh. Varadhi[^]

Dr. Raja Shekhar. Geddada[#]

[^]RGUKT (AP-IIIT), Srikakulam

[#]Dr. V. S. Krishna College, Visakhapatnam

Abstract :

This paper examines the effect of information and communication tools on English Language Teaching (ELT) in Pre-University and B.Tech courses in depth. Given the increasing use of technology in education, the goal of this study is to look at the viability of merging information and communication resources to improve language learning outcomes and pedagogical practices. The research used the Rajiv Gandhi University of Knowledge Technologies (RGUKT) in Andhra Pradesh, India, as a case study. This study adds to our understanding of how technology and communication technologies affect ELT. The study's findings have implications for language education theory and practice, providing information on the benefits and drawbacks of implementing technology. They serve as a jumping-off point for future research into the ongoing impact of technology on linguistic competence, an examination of revolutionary tools and approaches, and an examination of how continuing education for teachers can help them effectively use technology in language instruction.

Keywords: *English Language Teaching, information and communication tools, technology integration, Pre-University, B.Tech programs, RGUKT Andhra Pradesh*

*Corresponding Author: Ganesh. Varadhi

Effect of Rotation on Propagation of Surface Waves at an Interface of Micro polar Elastic Solid with Stretch and Inviscid Liquid Layer

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Abstract:

This article deals with the study of an angular rotation effect on Rayleigh type surface wave propagation at an interface of inviscid liquid layer and rotating micro polar elastic solid with stretch. After developing the mathematical model, the secular equation for surface in compact form is derived. The effects of angular rotation of the medium and thickness of the liquid layer are illustrated for a particular model with the help of MATLAB programme.

Keywords: *Micro polar elastic solid, Stretch, Rotation, Inviscid liquid, Surface waves*

*Corresponding Author: EK. Narasimharao

Effect of Surface Stress on Rayleigh type Wave Propagation in a Rotating initially Stressed Voigt-type Viscoelastic layer

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Abstract

In this present article, we investigate the effect of surface stress on Rayleigh wave propagation in a rotating homogeneous, isotropic, initially stressed Voigt-type viscoelastic layer. The basic equations are solved by the method of 'plane harmonic solution' and dispersion relations are derived for Rayleigh waves in an initially stressed Voigt-type viscoelastic layer on its surface stressed boundary. The dispersion relations pertaining to initially stress of the solid and viscosity of the layer are discussed in special cases. All the dispersion relations are depends on the material surface stress. The numerical example is considered to discuss the effect of surface stress, angular rotation, viscosity and initial stress on the phase velocity of Rayleigh waves.

Keywords Surface stress, Rayleigh type waves, Rotation, Initial stress, Voigt-type Viscoelastic layer

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