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Kambhampati Venkata Govardhan Rao ; Malligunta Kiran Kumar ; B. Srikanth Goud ; D. Krishna ; Mohit Bajaj ; Parvesh Saini ; ...

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Abstract



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Abstract:

In India, agriculture is the main source of income for the great majority of people. It has a significant bearing on the economic climate of the country. However, the movement of people away from rural areas and into urban ones has created a problem for the agricultural industry in today's world. The only method to improve crop productivity is to pay close attention to the surrounding environment. There aren't very many factors that can dramatically lower an employee's output. Hence Automation in agricultural production is necessary to address these challenges. A system of irrigation that may be set to operate automatically, so saving the farmer time, money, and effort. The most traditional approaches to irrigating farms need the use of manual labour. If irrigation equipment is automated, there will be less need for human involvement in the process. The IOT and sensors continuously sense and monitor crops, which enables farmers to receive periodic updates regarding the progression of crop development and the appropriate time to harvest their crops. This not only improves agricultural productivity but also guarantees that items will be delivered to clients at the right location and at the right time. Because of this challenge, we have turned to the IoT-based smart agriculture technology for a solution. In order to assist the collection and analysis of data collected from the field, this paper includes sensors for measuring temperature, humidity, and soil moisture. In order to create a wireless sensor network, these sensors are linked using well-established web technologies. This makes it possible to administer and keep track of the sensor data remotely.

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 **Contents**


I. Introduction

The primary source of income for the vast majority of Indians is agriculture, which significantly contributes to the national economy. Crop development in agriculture industry has increased significantly over the past ten years [1]. Price increases for food are a constant since plant quality has declined. This could be caused by a number of things, such as polluted water, deficient soil fertility, improper fertiliser use, climate change, infections, etc. Agricultural interventions must be done successfully, and IoT integration [Sign in to access this reading](#) is the answer. IoT [2]. To ensure that the necessary information is sent to the right people at the right time, the Internet of Things (IoT) is nothing more than a method of connecting everything to the internet and networking everything that was previously unconnected. (such as a car, home, electronic gadgets, etc.). IOT is also known as the internet of things. As heavy rainfall is unpredictable and unpredictably heavy, irrigation is a crucial aspect in agriculture [3]–[4].

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