

LITERATURE SURVEY

IoT Based Smart Crop Protection System For Agriculture

Author name: Divya M, Janani V

Year of publishing: 2022

Description:

Agriculture is essential to India 's economy and people's survival. The purpose of this project is to create an embedded-based soil monitoring and irrigation system that will reduce manual field monitoring and provide information via a mobile app. The method is intended to help farmers increase their agricultural output. A Ph sensor, a temperature sensor, and a humidity sensor are among the tools used to examine the soil. Based on the finding, farmers may plant the best crop for the land. The sensor data is sent to field manager through Wi-Fi, and the crop advice is created with the help of the mobile app. When the soil temperature is high, an automatic watering system is used. The crop image is gathered and forwarded to the field manager for pesticide advice.

Author name: Dweepayan Mishra, Arzeena Khan, Rajeev Tiwari, Shuchi Upadhye

Year of publishing: 2022

Description:

Agriculture is a substantial source of revenue for Indians and has a huge impact on the Indian economy. Crop development is essential for enhanced yield and higher-quality delivery. As a result, crop beds with ideal conditions and appropriate moisture can be have a big influence on output. Traditional irrigation system, such as stream flows from one end to the other, are usually used. As a of this delivery, the moisture levels in the fields can alter. A designed watering system can help to enhance the management of the water system. This research proposes a terrain-specific programmable water system that will save human work while simultaneously improving water efficiency and agricultural productivity. The setup is made up of an Arduino kit, a moisture sensor, and a Wi-Fi module. Data is acquired by connecting our experimental system to a cloud framework. After then, cloud services analyse the data the necessary actions.

Author name: Prathibha

Year of publishing: 2017

Description:

Proposed Iot Based Monitoring System In Smart Agriculture. It is a system for making agriculture smarter through the use of automation and Internet of Things technologies. Weeding, spraying, moisture sensing, and other tasks will be performed by a smart GPS-based remote-controlled robot. It includes smart irrigation with intelligent control, intelligent decision-making based on exact real-time field data, and smart warehouse management. The warehouse's temperature, humidity, and theft detection are all monitored by it. Wireless field monitoring saves time and effort while also allowing users to view precise changes in crop yield.

Author name: C.P. Wickramasinghe

Year of publishing: 2019

Description:

Proposed Smart Crop and Fertilizer Prediction System. This study focuses on recommending the optimum crop for the soil fertility of the land, as well as a fertilizer plan to maximize the amount of fertilizers applied to the advised crops. The research describes a tool with integrated sensors that measures soil fertility, as well as a cross-platform mobile application that recommends the best crops based on the soil fertility available. It provides a solution based on IoT, which leads to the effective and efficient use of technology to meet cultivation aims by obtaining accurate information on nutrition conditions for successful cultivation.

Author name: Dr.M. Chandra Mohan Reddy

Year of publishing: 2020

Description:

Proposed Smart System To Protect Crop Form Living Objects And Arduino platform. It's planning and execution solution for advanced embedded system development. Local animals such as buffaloes, cows, goats, birds and fire frequently damage farm crops. Farmers suffer significant losses as a result of this. To detect wild animals approaching the region, a motion sensor is utilized. The sensor direct the microcontroller to act in this case. The microcontroller now plays an alarm to tempt the animals away from the field, as sending an SMS and making a phone call to warn the farmer to the situation and allow him to intervene promptly if the animals do not escape.