IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

LITERATURE SURVEY

TEAM DETAILS:

Team No: PNT2022TMID31686

College Name: KGISL Institute Of Technology

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1)

Title:

Implementation of IOT based Smart Protection

Authors:

Ipseeta Nanda, Sahithi Chadalavada

Description:

An integrating method in the area of IoT(Industrial Internet of Things) plan for understanding agriculture which is preceding the arrangements low-power devices. This paper crops a watching procedure for farm safety against animal rounds and climate change conditions. IoT advances are commonly used in smart farming to underscore the standard of agriculture. It contains types of sensors, controllers. On behalf of WSN, the ARM Cortex-A board which annoys 3W is the foremost essence of the procedure. Dissimilar sensors like DHT 11 Humidity & Temperature Sensor, PIR Sensor, LDR sensor, HC-SR04 Ultrasonic Sensor, and camera are fixed on the ARM Cortex-A board. The PIR goes high on observing the power within the chance, the camera starts to record, and the data will be kept on-board and in the IoT cloud, immediately information will be generated spontaneously towards the recorded quantity using a SIM900A unit to alert about the interference with the information of the weather conditions attained by DHt11.

Year:

February 2021

Technologies:

Python

2)

Title:

Smart Crop Production System

Authors:

Mohit Korche, Sarthak Tokse

Description:

Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc. This leads to huge losses for the farmer. Due to over population, it occurs a deforestation this results in shortage of food, water and shelter in forest areas. So, animal's interference in residential areas is increasing day by day which affects human life and property causes human animal conflict but as per nature's rule every living creature on this earth has important role in eco-system. Elephants and other animals coming in to contact with humans, impact negatively in various means such as by depredation of crops, damaging grain stores, water supplies, houses and other assets, injuring and death of humans. So here we propose automatic crop protection system from animals. This is a microcontroller-based system using PIC family microcontroller. These systems use a motion sensor to

detect wild animal approaching near the field. In such a case the sensor signals the microcontroller to take action.

Year:

August 2021

Technologies:

Python

3)

Title:

Smart Agriculture Monitoring and Control System Using IOT

Authors:

Abhilash Lad, Sumitra Nandre

Description:

India is agriculture sector, on either side, is losing, ground every day, affecting the ecosystem output capacity in order to restore vitality and put agriculture back on a path of higher growth need to resolve the issue. A large – scale agricultural system necessities a great deal of upkeep, knowledge, and oversight. The IoT is a network of interconnected devices that can transmit and receive data over the internet and carry out tasks without human involvement Agriculture provides a wealth of data analysis parameters, resulting in increased crop yields. The use of IoT device in smart farming ads in the modernization of information and communication. For better crop growth

moisture, light and other factors can be assumed. This research looks into a few of these characteristics for data analysis with the goals of assisting users in making better agriculture decisions using IoT the technique is intended to help farmers increase their agriculture output.

Year:

February 2022

Technologies:

Python