LITERATURE SURVEY

OBJECTIVE

The main objective of the project is to develop a system that coordinates and helps in automating works of farmers. To reduce the manual risk of farmers by helping in automation of majority of tasks using iot and execute operations remotely. This would help farmers to reduce workforce and would be an one time investment for workers . This would also help in timely monitoring of farm land and hence avoiding maximum losses.Integrating IOT would thus help to resolve this issue, and thus help farmers to work remotely.

USE CASES:

This could be used in farm lands to monitor crops periodically Integrating Internet of Things (IoT) techniques into different fields and processing data produced within it can effectively shape the future. In Precision Agriculture, the use of the IoT features helps to manage crops production by optimizing productivity and reducing environmental concerns based on prediction models.

LITERATURE SURVEY :

PAPER	DESCRIPTION
IoT Based Automated Crop Protection System	This paper provides a solution to the destruction of crops by animals. This system will provide a complete technical solution using the Internet of things (IOT) to the farmers to prevent their crops from wild animals and provide information to the farmers to maximize their production. Animals are detected using PIR sensors and cameras where animals are identified using TensorFlow image processing Techniques. Raspberry PI is used as the processing unit of the system and sound buzzers are used to emit the ultrasound frequencies.
Development of IoT based smart security and monitoring devices for agriculture	This paper is oriented to accentuate the methods to solve such problems like identification of rodents, threats to crops and delivering real time notification based on information analysis and processing without human intervention. In this device, mentioned sensors and electronic devices are integrated using Python scripts. Based on attempted test cases, we were able to achieve success in 84.8% test cases.
Implementation of IIoT based smart crop protection and irrigation system	It contains types of sensors, controllers. On behalf of WSN, the ARM Cortex-A board which consumes 3W is the foremost essence of the procedure . Different sensors like DHT 11 Humidity & Temperature Sensor, PIR Sensor, LDR sensor, HC-SR04 Ultrasonic Sensor, and

	camera are mounted on the ARM Cortex-A board. The PIR goes high on noticing the movement within the scope, the camera starts to record, and the data will be reserved on-board and in the IoT cloud, instantaneously information will be generated automatically towards the recorded quantity using a SIM900A unit to notify about the interference with the information of the weather conditions attained by DHt11. If a variance happens, the announcement of the threshold rate will be sent to the cell number or to the website. The result will be generated on a catalog of the mobile of the person to take the necessary action .
Smart Crop Protection System Using IOT	The purpose of SCPS is to secure or protect the farm from the theft in the farm or main purpose of this project is to alert the farmer as well as fear the animals with getting harm to animals

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