

IDEATION

Idea 1:

Animals, both domestic and wild, frequently destroy crops on farms, and one of the causes of this is low agricultural output. It is impossible to monitor the crops on a farm for 24 hours. An automated, shrewd crop defence system using the Internet of Things is therefore suggested to address these problems (IOT). The system consists of an esp8266 (nodeMCU), a dihydrogen monoxide sensor, a soil moisture sensor, a GPRS and GSM module, a servo motor, and other components. to produce the necessary result. As soon as any kineticism is discovered, the system will sound an alarm, and lights will start to glow throughout the farm. No animals will be harmed by this, and the crops will remain protected.

Idea 2:

The project will assist farmers in protecting their farms, according to the smart protection system. This project was created with the intention of keeping animals safe, but it also includes safeguards against humans. The IOT gadget can assist in achieving this. In order to make this installation easily transportable, we added solar panels and converter modules in addition to the SCPS, which operates on a battery. This can make it easier for the battery to charge using solar power. When someone enters the farm, the IOT device sends the farmer a message, and we utilise an SD card module to store a specific sound that makes the animals frightened

Idea 3:

A centralizing method in the area of IIoT (Industrial Internet of Things) contrived for understanding agriculture which is preceding the arrangements low-power devices . This project yields a monitoring procedure for farm safety against animal attacks and climate change conditions. IIoT advances are frequently used in smart farming to emphasize the standard of agriculture. 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 onboard 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.

