Literature Survey

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| Team ID | PNT2022TMID43975 |
| Title | Iot based Smart crop protecting for agriculture |

* IOT Based Crop Protection System against Wild Animals

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The interest of the IOT has been expanded all things considered. In numerous part IOT has drawn huge research consideration from industry .In rural in the yield, it gives savvy cultivating, exactness horticulture and furthermore persistent observing. This paper presented the improvement of IoT application for collect protection from the interlopers, which can distinguish and alerts the ranchers utilizing PIR sensor and raspberry pi.Consuming less power this can give the data about the gatecrashers and catches them utilizing quantum camera. This can shield the yield from creatures and furthermore from hoodlums. An observing and redirecting framework is given to keep the yield from being robbery and harmed by gatecrashers.

* Smart Crop Protection System With Image Capture Over IOT

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The problem of wild animal attacks on crop fields i.e. crop vandalization is becoming a very common phenomenon in the state of Himachal Pradesh, Punjab, Haryana and many other states. Wild animals like monkeys, estray animals especially cows and buffaloes, wild dogs, nilgais, bisons, elephants deer, wild pigs and even birds like parakeets cause a lot of damage to crops either by running over them or eating them and vandalizing them completely. This leads to poor yield of crops. These animals attack on fruit orchards and destroy the flowerings and fruits. In both cases, this leads to significant financial loss to the farmers and orchard owners. The problem is so pronounced that sometimes farmers decide to leave the area barren due to these animal attacks.

* IoT Solutions for Crop Protection against Wild Animal Attacks

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Technology plays a central role in our everyday life. There has been a surge in the demand of Internet of Things (IoT) in many sectors, which has drawn signiﬁcant research attention from both the academia and the industry. In the agriculture sector alone, the deployment of IoT has led to smart farming, precision agriculture, just to mention a few. This paper presents the development of Internet of Things application for crop protection to prevent animal intrusions in the crop ﬁeld. A repelling and a monitoring system is provided to prevent potential damages in Agriculture, both from wild animal attacks and weather conditions.

* SMART CROP PROTECTION SYSTEM FROM ANIMALS

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Animals like wild boars, buffaloes, cows, elephant, monkeys, birds, etc. damages the crop a lot which results in loss of production and so of farmer. It is very difficult for a farmer to keep an

eye on the field every time. This system is designed to surveillance the field 24\*7 which is not

possible for a human being and diverts the animals without harming them. The system uses raspberry pi, PIR sensor to detect animal, camera module to look on animal, GSM module to send alert message to farmer, and a buzzer to divert the animals. This system ensures the safety of farm and decreases the loss of farmers.

* IOT Based Crop Protection System against Birds and Wild Animal Attacks

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The main aim of our project is to protect the crops from damage caused by animal as well as divert the animal without any harm. Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc. This leads to huge losses for the farmers. It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it. So here we propose automatic crop protection system from animals. Animal detection system is designed to detect the presence of animal and offer a warning. In this project we used PIR and ultrasonic sensors to detect the movement of the animal and send signal to the controller. It diverts the animal by producing sound and signal further, this signal is transmitted to GSM and which gives an alert to farmers and forest department immediately.