**IOT BASED CROP PROTECTION SYSTEM**

**TEAM MEMBERS: SHERLY ANGELINE.J-IV YEAR ECE-C**

**SRUTHI.S-IV YEAR ECE-C**

**JANANI.C-IV YEAR ECE-C**

**BRINDHA.M-IV YEAR ECE-C**

**LITERATURE SURVEY:**

1. By N S Gogul Dev,K S Sreenesh,P K Binu -

<https://ieeexplore.ieee.org/document/8993406>

* Provides a complete technical solution using 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 systemand sound buzzers are used to emit the ultrasound frequencies.

1. By Priyanka Deotale, Prasad lokulwar- <https://ieeexplore.ieee.org/document/9697315>

* Automated perspicacious crop aegis system is proposed utilizing Internet of Things (IOT).
* The system consists of esp8266 (nodeMCU), soil moisture sensor, dihydrogen monoxide sensor, GPRS and GSM module, servo motor, dihydrogen monoxide pump, etc. to obtain the required output.
* As soon as any kineticism is detected the system will engender an alarm to be taken and the lights will glow up implemented at every corner of the farm.
* This will not harm any animal and the crops will stay forfended.

1. By Vikas Bavane,Arti Raut,Swapnil Sonune - <https://www.researchgate.net/publication/329671392_>

* Protection\_of\_Crops\_from\_Wild\_Animals\_Using\_Intelligent\_Surveillance\_SystemFor surveillance of crops for protection against animals.
* In addition to providing protection this system distinguishes between an intruder and an authorized person using RFID’s, various PIR sensors are deployed in the area to detect any motion and hence turns ON a camera when movement is detected, thereby providing real time monitoring.

1. By M. Jaya Prabha, R. Ramprabha, V. Vasu Brindha, C. Asha Beaula-

<https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.ijeat.org/wpcontent/uploads/papers/v9i4/D8732049420.pdf&ved=2ahUKEwjH8eXhgof6AhUR3TgGHZoXCCk4ChAWegQILRAB&usg=AOvVaw2ZIYS2dmVntRYewn9C01Oi>

* Protects crop from animals using IR sensor which detects

the animal while crossing it, by sensing the movement of the animal and ultrasonic sensor detects the birds entering in the fields.

* This system will continuously check for any animals entering inside the field.

1. By Mohith Korche, Sarthak Tokse, Shubham Shirbhate, Vaibhav Thakre, S.P.Jolhe-<https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.ijlesjournal.org/2021/volume-4%2520issue-4/ijles-v4i4p101.pdf&ved=2ahUKEwjEp8ekg4f6AhUCxjgGHQmBBVoQFnoECDQQAQ&usg=AOvVaw1ziT4_hbrs7IX1zqOtBVCJ>

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 signal the microcontroller to take action