

Project Objectives

Team ID: PNT2022TMID33661

Project Name: IOT Based Smart Crop Protection System
for Agriculture

By the end of this project we will:

Gain knowledge of Watson IoT Platform.

Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.

Gain knowledge on Cloudant DB

Gain Knowledge on using the Clarifai service

Gain knowledge of storing images in IBM Object Storage and retrieving images

Creating a Web Application through which the user interacts with the device.

Project Flow:

The device will detect the animals and birds using the Clarifai service

If any animal or bird is detected the image will be captured and stored in the IBM Cloud object storage.

It also generates an alarm and avoid animals from destroying the crop

The image URL will be stored in the IBM Cloudant DB service

The device will also monitor the soil moisture levels, temperature, and humidity values and send them to the IBM IoT Platform