# PROPOSED SOLUTION

Develop Affordable app-based solution for Soil health monitoring and suggest which crop to be sown based on it and also Develop smart solution to protect crops from wild animals,predicting potential pest,disease,insect attacks on crop and prediction of crops.

Monitoring different parameters of this fields like soil moisture,temperature,and humidity using sensors such as soil moisture sensors,temperature sensors,pH sensors ,humidity senors.These sensors can be portable such as handheld probes.

Modernizing the current traditional methods of agriculture,Internet of Things(IoT)enables various applications of crop growth monitoring and selection,automatic crop protection decision support.

This IoT Model based system were successful in replicating a large scale smart farm environment considering the number of sensors. we expect a smaller number of sensors, due to costs and farm sizes.

Smart Crop Protection System by modernizing the current traditional methods of agriculture.ESP8266 IoT based Smart Crop Production System to modernize and improve the Productivity of the Crop

Smart Crop Protection System is its ability to save water.Our System use sensors for real-time or historical data to inform watering routines and modify watering schedules to improve efficiency.



Cloud Services

IoT Device

Python Code (random data)

IBM Watson IoT Platform

Node-RED

Web UI

FAST2SMS

User