Usecase-3:
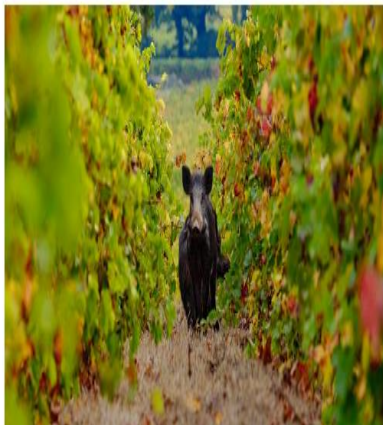
IOT based Smart Crop Protection System For Agriculture

Description:

❑ Crops in the farms are many times devastated by the wild as well as domestic animals and low productivity of crops is one of the reasons for this. It is not possible to stay 24 hours in the farm to guard the crops.

❑ An intelligent crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop. This system shall also include remote monitoring and control of pump to avoid the farmer to visit the farm in nighttime.

❑ Solution Requirements:

   ❑ Safety of people & animal

   ❑ Low-cost solutions, lower dependency on power

   ❑ Simple solution to suite the farmer community

Usecase-3:

IOT based Smart Crop Protection System For Agriculture

Social Impact

Improve the productivity, Save lives of farmers

Business Model/Impact

Community based solution by FAO's
Solution through contract farming

Recommended Technology Stack

Computer Vision API's, GSM Modules, ESP8266, IBM Watson IoT Platform, Android Application

Existing Solutions

https://www.agrivi.com/blog/top-five-strategies-to-protect-crops-from-wild-animals/

References

https://article.murata.com/en-eu/article/measures-against-wildlife-damage-through-iot

https://www.fao.org/3/cb2447en/cb2447en.pdf