

Smart Crops Protection System Using Mobilenetv2

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Abstract

The project aims to develop a smart system for detecting and deterring wildlife intrusions in agricultural fields. By leveraging the MobileNetV2 deep learning model, the system identifies animals in real- time from images captured by cameras installed in the field. Upon detection, the system triggers specific predator sounds to deter the animals and sends notifications to the field owner. In case of dangerous animals like tigers or lions, the system also initiates a voice call to alert the owner immediately. The integration of Twilio API facilitates SMS and voice notifications, ensuring timely alerts. This project addresses the critical issue of crop damage caused by wildlife, and also it can protect the wild animals from the traditional way of poison's and electrical fence, providing an innovative and automated solution to enhance crop protection and safety.

Keywords

Predator sound playback, voice call alert, wild animal detection and alert system.

