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(57) Abstract :

In our invention, an unmanned drone is used to capture a video of the field and use convolution neural networks and transfer learning technique to identify the diseases and weeds affecting the crop and suggests the remedies for the problem through the farmer's smartphone. The proposed model calculates the area over which the disease has spread using the parameters from the drone and also calculate the necessary amount of chemicals to neutralize the infection affecting the crop. The model comprises PIR sensors to take care of the unwanted animal's aspect of the problem by notifying the farmer about the area of movement through the smartphone whenever the sensor is triggered. The model proposed in our invention makes farming more efficient and profitable by decreasing the work of the farmer and increasing the yield. 4 Claims 4 Figures

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