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(57) Abstract :
Agriculture is the foundation of the economy, yet animal intervention on agricultural land will result in significant crop loss. This article offers a thorough analysis of the numerous strategies used by farmers to safeguard their crops. Animals, including buffalo, cows, goats, birds, and wild elephants, frequently destroy crops on farms. The farmers suffer significant losses as a result. Farmers are unable to defend their fields by staying on them for a full day. An animal detection system has been developed to detect the presence of animals, provide a warning, and guide the animal away from the danger area without causing any harm. The hardware components of the suggested effective repellant system are the PC-based Python programming for image processing, the Open CV library and Python software component for identifying animal features, the Arduino NANO connected to the PC, and a buzzer speaker for sounds to indicate farmers.

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