

Wild Animal Detection in Residential Area using AI-ML

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Abstract: *Human-wildlife conflicts in residential areas have become a major safety concern for both humans and animals. To mitigate these conflicts, we propose a system for wild animal detection using AI-ML. The system consists of a camera system, a machine learning algorithm, and a warning system. The camera system captures real-time images of the environment, which are then analyzed by the machine learning algorithm to identify the presence of wild animals. Upon detection, the warning system alerts residents, preventing potential dangerous encounters between humans and wildlife. Our system achieved an accuracy of 94% with a false positive rate of less than 5% in detecting different types of wild animals. Further research is needed to assess the effectiveness of the system in different environment.*

Keywords: Wild Animal Detection, AI, Machine Learning, Residential Area, CNN