

Android and IoT Integrated Smart Wildlife Surveillance using Night Vision

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Abstract: *Animal are important part of our ecosystem. Animal are very critical to our ecosystem. Due to increase in animal trafficking many wild animal are becoming endanger and also there population is decreasing. Because of this humans have created zoo, national park and sanctuaries which can work as safe heavens for these animal to avoid extinction. There can be scenario where animal are ill or poor health condition which can be a also cause of the death. Many people visit national park and sanctuaries where they are not able to see all animal. This project will be implement in python and will implement YOLO V7 algorithm to detect animals. Once animal is detected it will send name and GPS co-ordinates of the animal. These GPS co-ordinates will display on mobile and farmer can find animal at given location. This project can also be placed in farm land where human and animal conflict are common. If animal is detected it can send alert or sound can be generated to distract it. This project will help detection on wild animal using camera and deep learning technology. Android app will be used to locate the animal on google map..*

Keywords: GPS, YOLO V7, Android App, Animal