

# Detection and Tracing of Wild Animals using Machine Learning

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**Abstract:** *Animals are important part of our ecosystem. Animals are very critical to our ecosystem. Due to increase in animal trafficking many wild animals are becoming endanger and also their population is decreasing. Because of this human have created zoo, national park and sanctuaries which can work as safe heaven for this animal to avoid extinction. There can be scenario where animals are ill or poor health condition which can be an 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 implemented inpython and will implement RCNN 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 tourist 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, RCNN, Android App, Animal