**Android App for Geo-tagging location of wildlife and forest offence and sighting of wildlife in the forest areas**

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Problem Statement: Andaman & Nicobar Islands have a fragile ecosystem with a vivid flora and fauna. Protecting the wildlife is critical to its environment. Increase in wildlife offence like killing protected animals has increased in the recent past. This app will enable to curb such offence

**GeoTagging**, is the process of adding geographical identification [metadata](https://en.wikipedia.org/wiki/Metadata) to various media such as a [geotagged photograph](https://en.wikipedia.org/wiki/Geotagged_photograph) or video, websites, SMS messages.This data usually consists of [latitude and longitude coordinates](https://en.wikipedia.org/wiki/Geographic_coordinate_system),

Andaman & Nicobar Islands have a fragile ecosystem with vivid flora and fauna. A User-friendly application makes this process very easy and more elegant by compressing the geo-tagging technology into a simple app. **This app using Deep Learning concepts such as Convolutional Neural Network (CNN) and other Machine Learning Algorithm as per the requirements.** Wildlife animals are continuously monitored in the restricted areas in Andaman and Nicobar Islands. If any Human Activity or a disturbance to the wildlife occurs then **the image is captured from the video**. **This data (images) are then classified using a Deep Learning algorithm and then it classifies the image by checking whether the disturbance is caused by any human or with other animals.** Finally, this data is the value which represents true for human activity and false for animal activity. If the data is true then it is sent to model source called **PlaNet.It uses Convolutional Neural Network to find the geoloaction a picture using its pixels.** Once we get the longitudes and latitudes it is sent as a notification to the officer’s (Forest Department or Forest Patrol) who use the app and instantly they can open and locate the place where the incident has occurred. **The whole process is carried out through a localhost connection and is maintained offline as we cannot expect the forest to have an internet connection.** The whole process is very instant and the person or the hunter can easily be tracked down as there are many cameras in the forest so that **if the person (hunter) is escaped in one frame then he will be spotted in another frame and hence the person will be removed from the area.**

Through this app, we can protect the wildlife animals from poachers or hunter or even from the local tribe in Andaman and Nicobar Islands. This project can be implemented even for other forests also.

References:

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