



**Ahmedabad
University**

Machine Learning + Computer Vision Project

Group - 11

Week-1: Progress Report

Project title:

Evaluate performance of various object detection techniques (in case of small objects) on AU Drone dataset.

Group Members:

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Task performed in this week:

In the previous week, our group tried to understand the topic and searched for the dataset.

The dataset we have found are as follows:

- Visdrone
- UA-DETRAC
- UAVDT

We have looked through and tried to understand the references provided by the faculty. And to analyze the performance matrix, we have gone through the research papers from the web.

From the performance matrix we have gone through, we have concluded that from many types of it, like MAP, AP, AR, IoU, SVM, PSNR, and FPR. We tried to look into it.

The task to be performed in the next week:

- To understand the objective of the project completely.
- Try to understand and learn the Performance metrics, to get how we can use it for the future work.

References:

<https://ieeexplore.ieee.org/document/9607674>

<https://ieeexplore.ieee.org/document/9614327>

<https://paperswithcode.com/paper/efficientdet-scalable-and-efficient-object>