



**Ahmedabad
University**

Report 6

CSE541 Computer Vision Section-1

Project: Object detection techniques (in case of small objects) on AU Drone dataset.

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Results discussion of RetinaNet and Faster-RCNN on AU drone dataset:

RetinaNet:



Faster-RCNN:



>>> Results of testing RetinaNet and Faster-RCNN shows that both of the models are not efficient over AU drone dataset, it is because of that we trained both of the models on the Visdrone-2019 dataset, which has all the images from the oblique view whereas AU drone dataset contains the images from the top view. It reduces the accuracy of the models and fails them to detect objects accurately. But still we can see from the results that Faster-RCNN performs better than RetinaNet. Faster-RCNN detected around half of the objects whereas RetinaNet barely detected two or three objects.