



**Ahmedabad
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Report 4

CSE541 Computer Vision Section-1

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Comparison of QueryDet with RetinaNet:

Method	AP[%]
QueryDet	33.91
RetinaNet	33.95

Reference: Author links open overlay panel Onur Can Koyun a et al., “Focus-and-detect: A small object detection framework for aerial images,” Signal Processing: Image Communication, <https://www.sciencedirect.com/science/article/pii/S0923596522000273> (accessed Apr. 8, 2024).

>>> From the paper “Focus and detect: A small object detection framework for aerial images”, we can compare QueryDet with the RetinaNet model in terms of AP values. For QueryDet, AP[%] is 33.91 and for RetinaNet, AP[%] is 33.95. So we came to the conclusion that RetinaNet will provide better results for small object detection than QueryDet, so we implemented and tested RetinaNet on the Visdrone-2019 dataset for small object detection.

Results of RetinaNet:



