

AHMEDABAD UNIVERSITY
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
Winter Semester 2024
CSE-541 Computer Vision

Team Number: 3

Members:

Khwahish Patel	Krishang Shah	Sachin Dindor	Dhruvesh Panchal
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Project 6: Explore oriented object detection (OOD) models. Create our own AU drone dataset for such a model and then test/validate trained models.

WEEKLY REPORT

(Week 9)

(31/03/2024 - 06/04/2024)

Tasks Completed:

- Conduct comprehensive evaluation and validation of trained OOD models on the AU drone dataset and possibly other benchmark datasets to assess generalization capabilities.

Challenges Faced:

- We tried applying different pre-trained models to our AU drone dataset, but they did not yield efficient results. We tried to train specific models on the provided dataset, but it did not work out.
- Adapting OOD models to suit the specifics of the AU drone dataset, including variations in lighting, angles, and object orientations, posed challenges in achieving optimal performance.
- Not having access to GPUs hindered our progress a lot.
- Even the papers that claim outstanding results need to prove more truthful in our case.

Future Milestones:

- We aim to use the OOD model techniques with various algorithms to complete our assigned task more efficiently.