

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

**Team Number: 3**

**Members:**

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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**

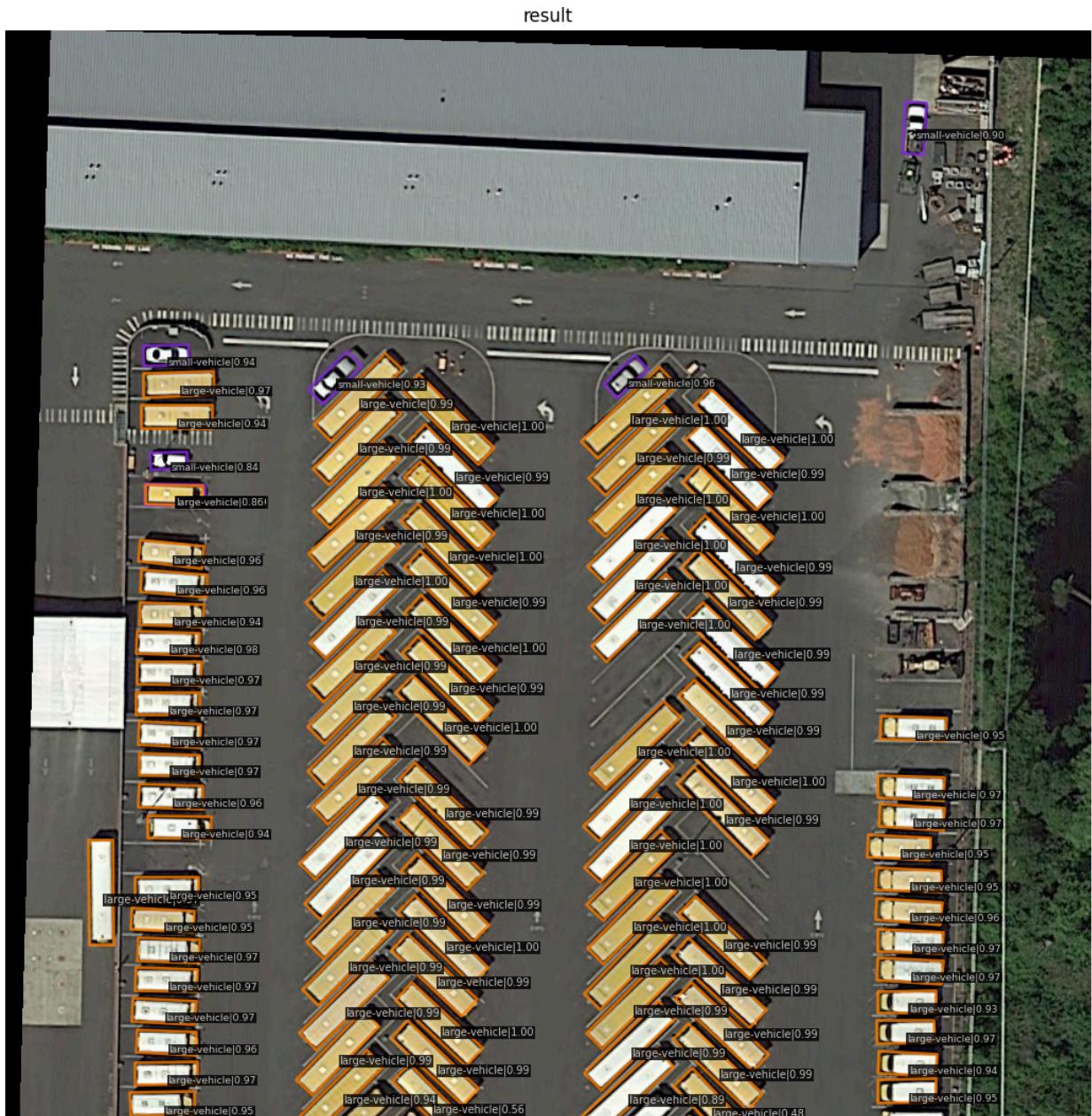
**(Week 7)**

**(17/03/2024 - 24/03/2024)**

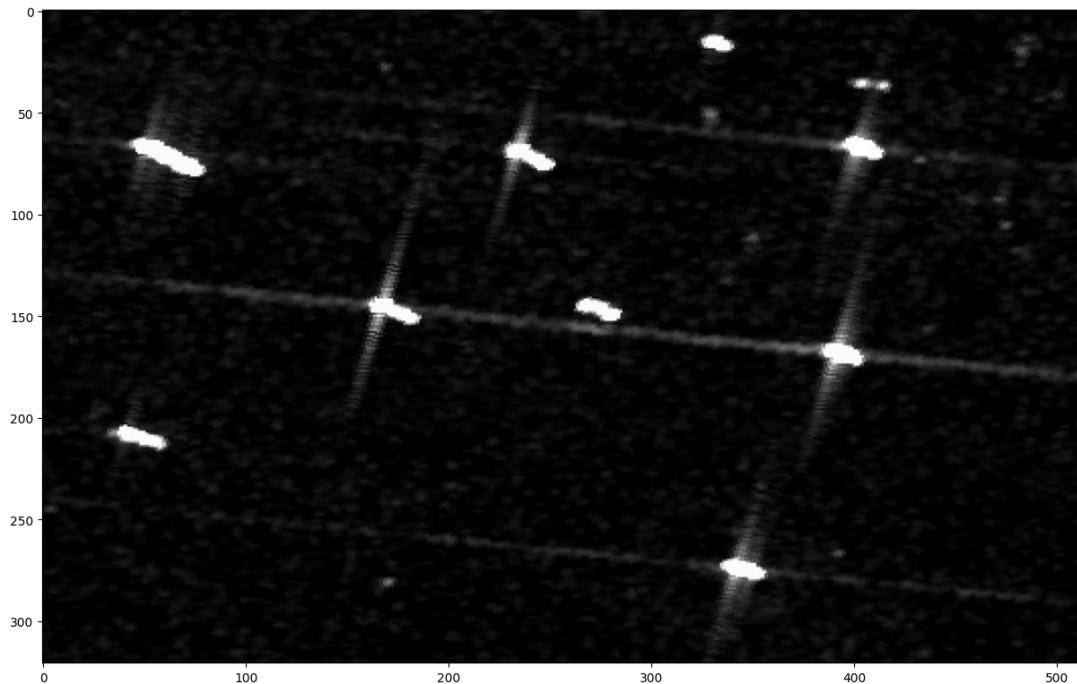
**Tasks Completed:**

- Explored OOD using the Oriented RCNN architecture.
- Got primary results using Oriented RCNN and YoloV8
- Trained and tested a custom model using Oriented RCNN on SAR Ship Detection Dataset.
- Tested the dataset and got the primary results from our custom model as well.

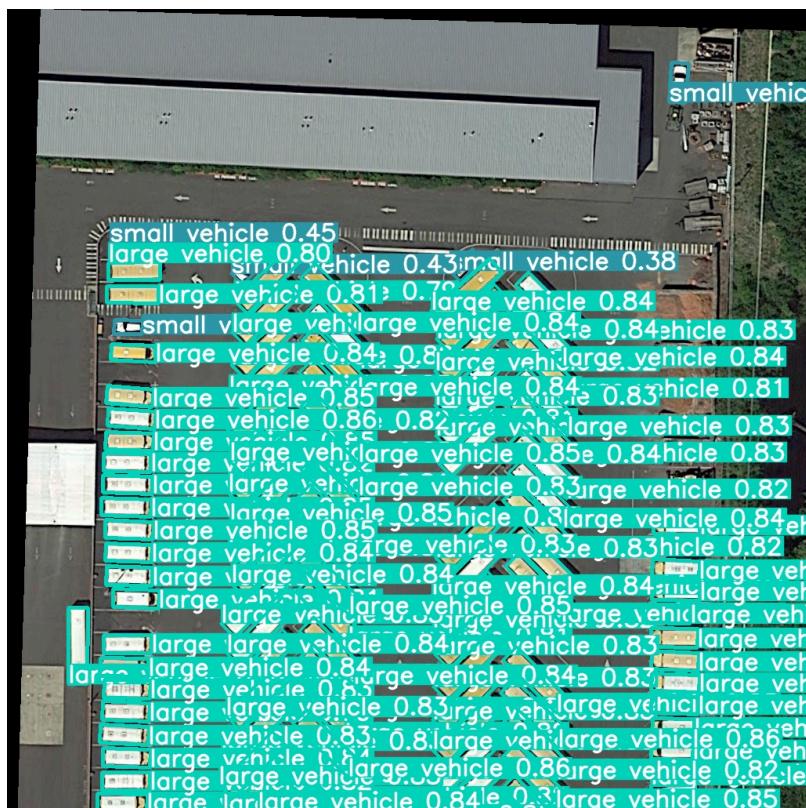
Primary results using Oriented RCNN:



Results of our custom model:



YoloV8 Results:



**Future Milestones:**

- Compare performance of models w.r.t small objects on AU drone dataset.