

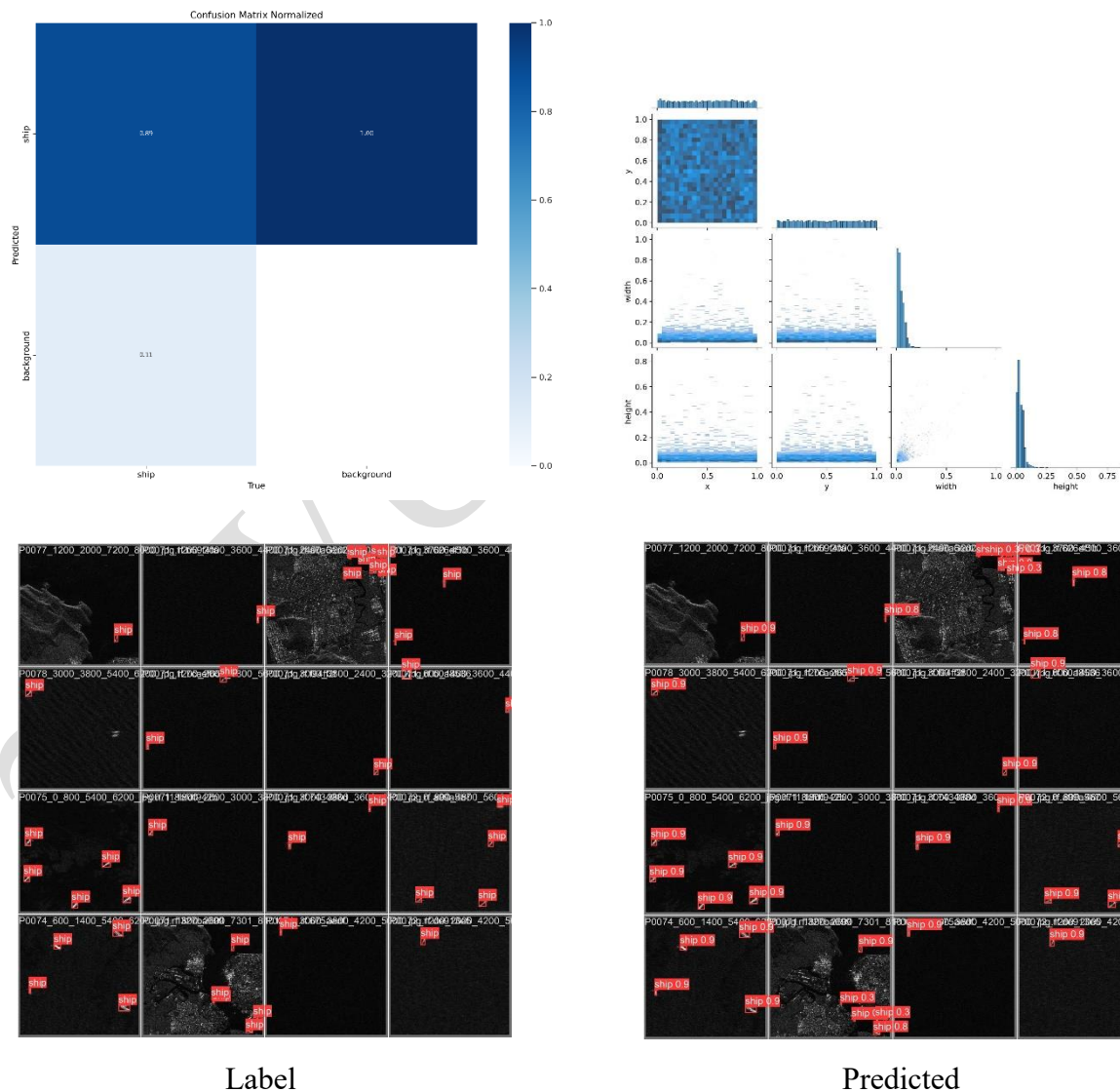
Suhora Intern – Report

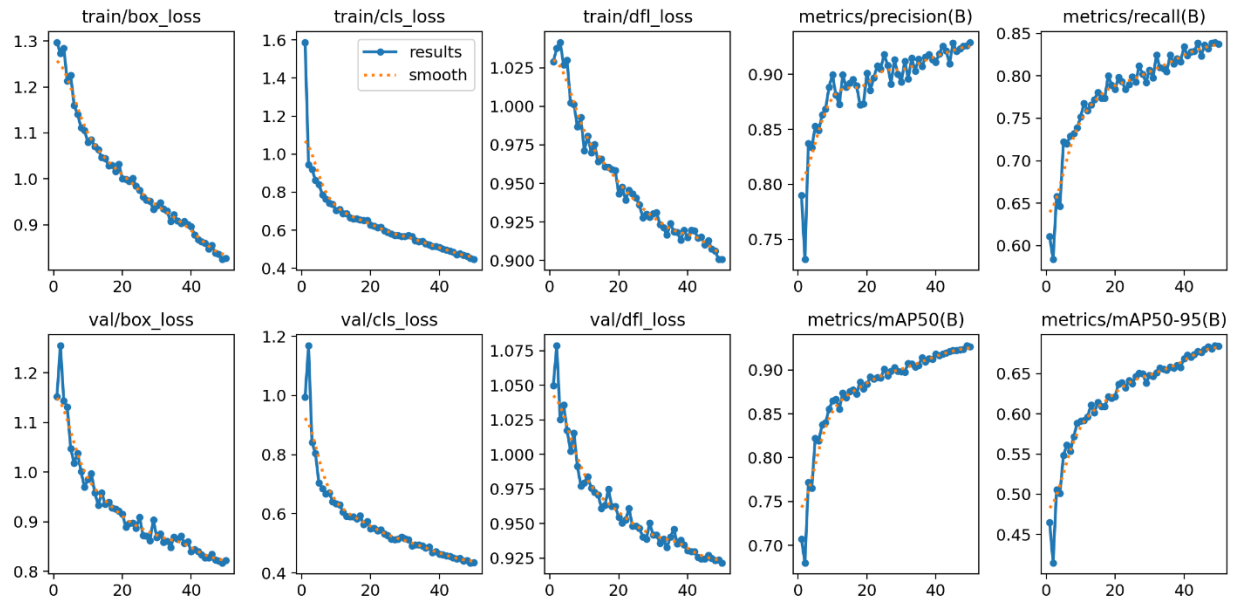
Task:

Detect ships in the given SAR Data. For the same you can design your own model or use the current state-of-the-art object detection and/or segmentation model like YOLOv8 / Segment Anything Model (SAM).

I, Kuragayala Kenny Joel, have used YOLOv8 to perform this task. Initially the annotations are in TXT so to convert txt to YOLO txt I have used Roboflow. You can download the dataset with YOLO TXT annotation [here](#). And trained the model in Google Collab

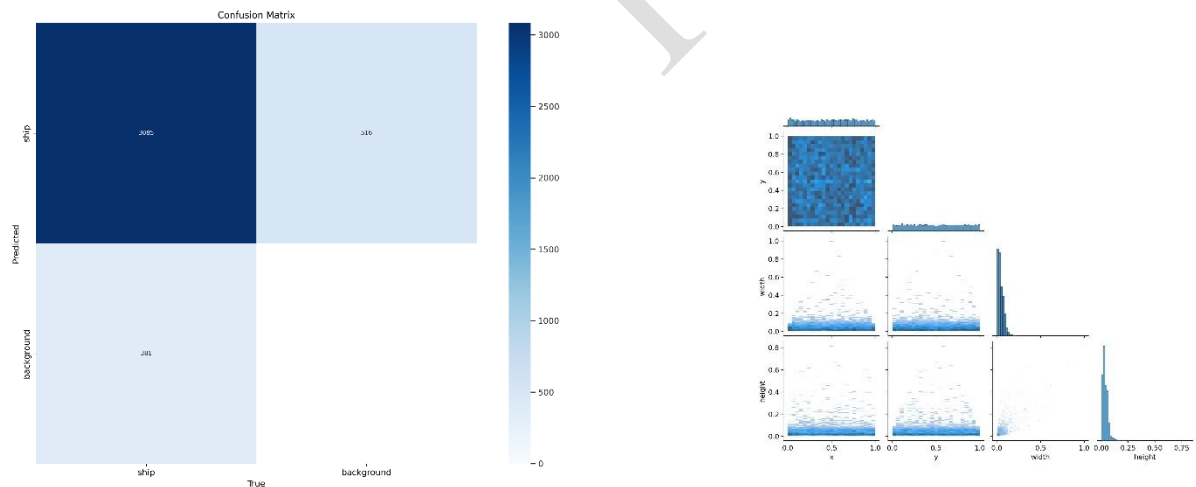
Train – 1 Google Colab (Tesla T4, 12GB RAM, 14GB GPU)

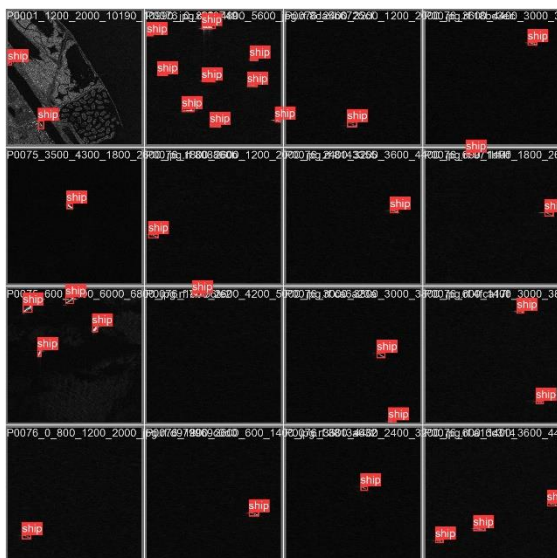




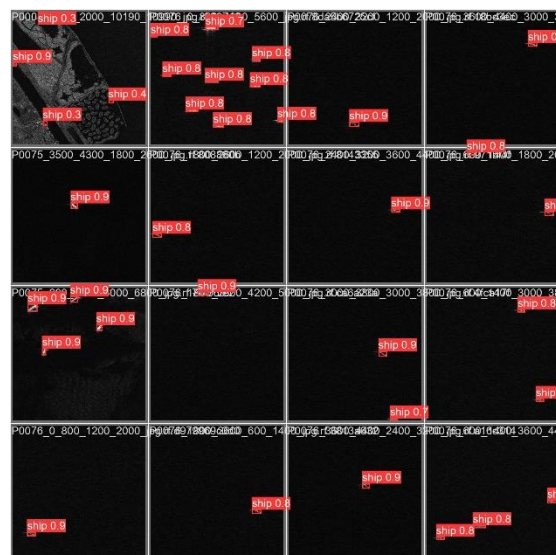
Results

Train – 2 Google Collab Pro (Tesla V100, 51 GB RAM, 16 GB GPU)

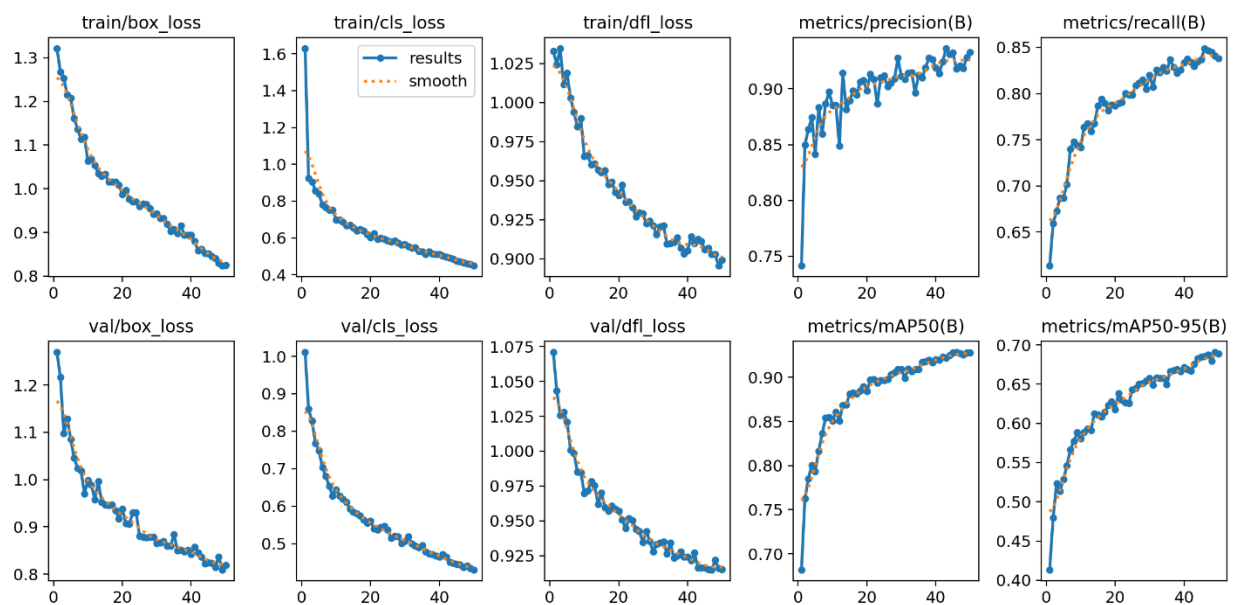




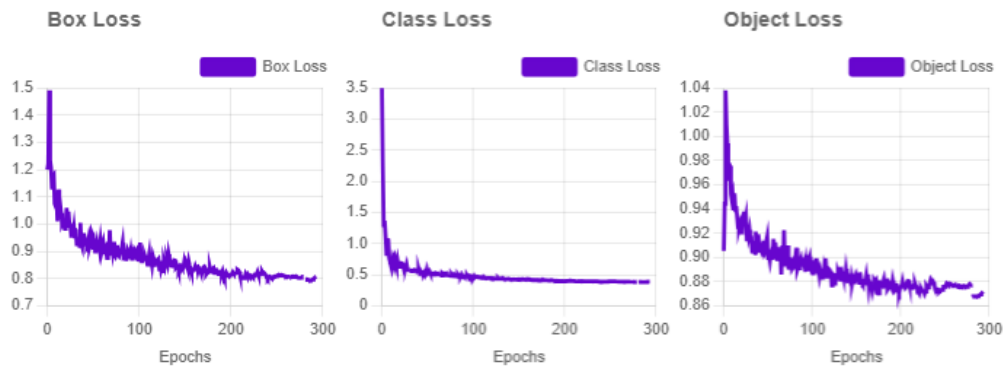
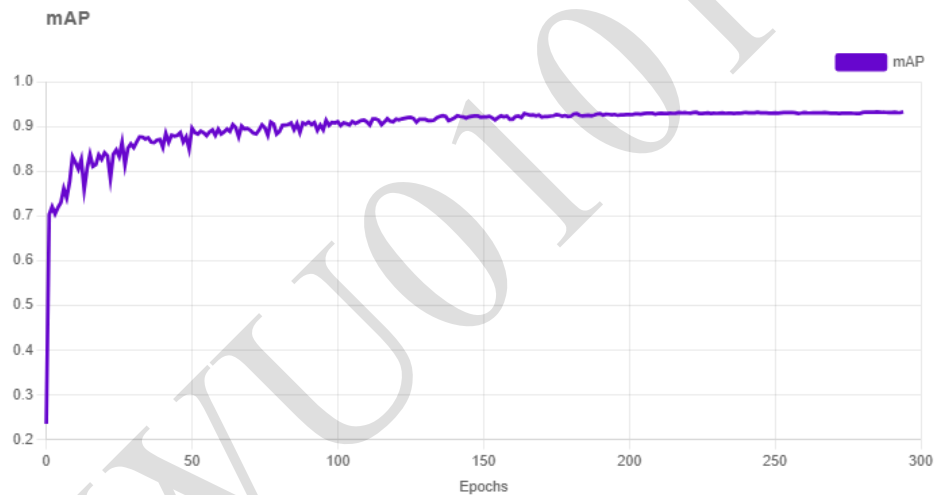
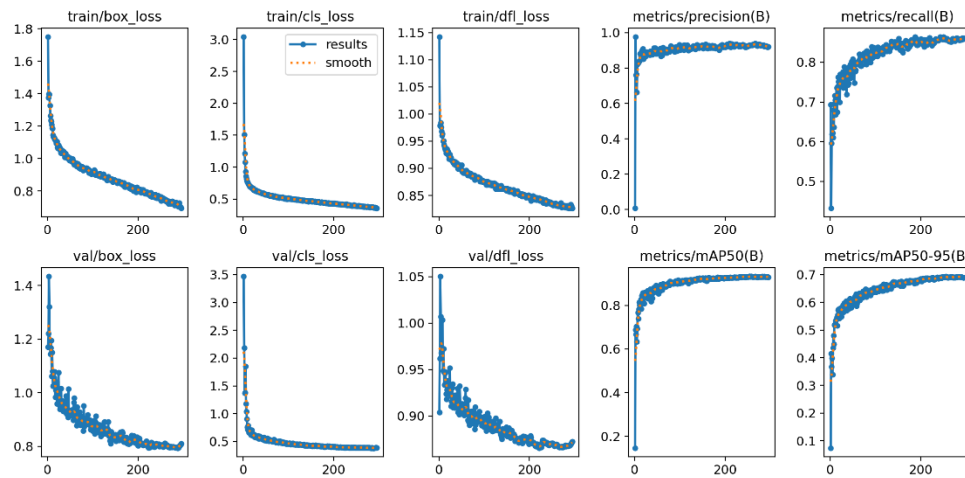
Label



Predicted



Train – 3 Roboflow Object Detection 3.0



You can detect the ships uploading and running in this small application – [Click Here](#).

Thanks, Suhora for giving the opportunity do this task. Regards – [Kenny Joel](#)