Weekly Report-7

CSE-541 (Computer Vision)

ProjectNo_2 **GroupNo_5**

Ahmedabad University

Project Title

"Road Markings Detection and Road Measurement in Aerial Imagery"

Date of Submission: 06-04-2024

Group Details:

Enrolment No.	AU2140001	AU2140017	AU2140032	AU2140149
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Progress:

Until now we were able to perform binary mask classification using deep learning model U-Net, in week 7 we were able to perform **multiclass mask classification** and here are the results which we achieved.

Results:

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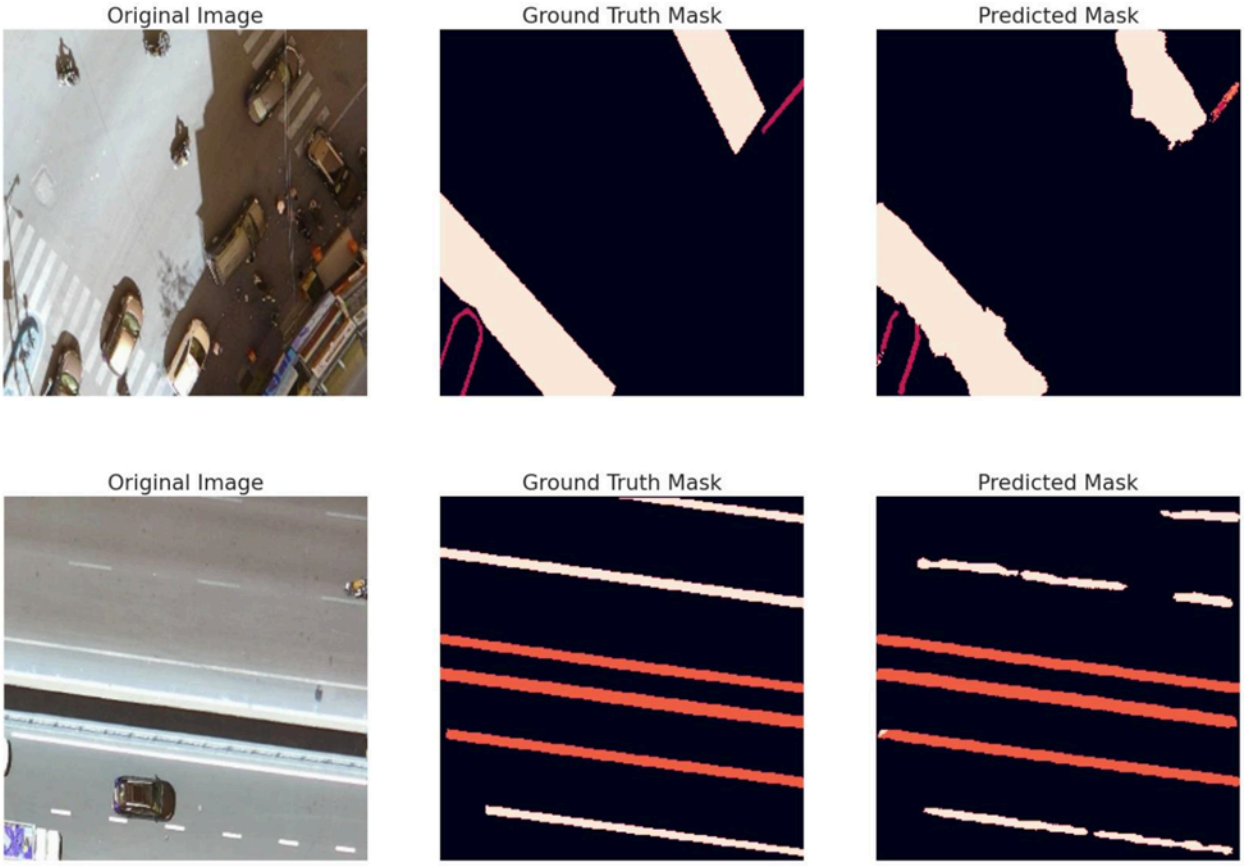

Color	Label
	Zebra Crossing
	Lane Marking
	Lane Separator
	Divider
	Traffic Sign

Above are the labels we used for multiclass mask classification.

Next steps:

- Next we are working on pixel to cm mapping and we will try to implement it on the images provided to us by yagnik sir.

References :

- Guan, H., Lei, X., Yu, Y., Zhao, H., Peng, D., Marcato, J., & Li, J. (2022). Road marking xtraction in UAV imagery using attentive capsule feature pyramid network. International Journal of Applied Earth Observation and Geoinformation, 107, 102677. https://doi.org/10.1016/j.jag.2022.102677