

PRODUCT DEVELOPMENT LAB

TITLE-

VEHICLE IDENTIFICATION AND ALERTING SYSTEM

TEAM MEMBERS-

1. ANWESH KUMAR SAMAL – 119EC0268
2. MALAYAJ RATH – 119EC0597
3. SRITAM PANDA – 119EC0195

WEEKLY STATUS-

WEEK-1: -

- Studied regarding the concepts of Deep learning like convolution, object localization, object detection using YOLO algorithm.
- Searched research papers on DETR algorithm.
 - Learnt about OpenCV basics for object detection implementation

WEEK-2: -

1. Anwesh – Searched about the architecture and implementation of the approach of the DETR algorithm. Tried to understand the terms associated with the trained model.
2. Sritam- Went through YouTube videos so as to understand the logic behind each step of the algorithm.
3. Malayaj- Compiled the test code and tried to implement on a sample video.

GITHUB LINK (test code): <https://github.com/malayaj2000/vehical-detection-and--alert>

Finally, the code modification was done by all of us so as to match and check the proper confidence interval to have a better probability of the object / vehicle detection.

Problems faced-

- FPS problem – too low fps but the detection was accurate.

OBSERVATIONS-

Based on a sample video



