**CSE 523 Machine Learning Winter 2022**

Progress Report :

**Vehicle Detection using HOG-SVM**

Group Name :

**FOUR**

**Date: 16th March, 2022**

Group Members -

| Darsh Patel | AU1940150 |
| --- | --- |
| Dev Jani | AU1940045 |
| Chirayu Vithalani | AU1940160 |
| Siddharth Agrawal | AU2020091 |

**1) Tasks Performed in the week**

* Optimized the HOG feature extraction method for object detection.
* Used different classification models after processing the image

**2) Outcomes of the tasks performed**

* Better accuracy of the classification model

**3) Tasks to be performed in the upcoming week**

* Research about Lane Departure Alert System
* Development of machine learning model to detect lines using Edge detection and Hough Transform