**CSE 523 Machine Learning Winter 2022**

Progress Report:

**Vehicle Detection using HOG-SV and Lane Departure Alert System**

Group Name:

**FOUR**

**Date: 6th April 2022**

Group Members -

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

**1) Tasks Performed in the week**

* Performed camera calibration on the set of training images as many images were distorted and it is necessary to keep them in a standard format
* Applied two algorithms one of which is to blur out the background using a gaussian filter and the other is to find the edge pixels of the road using Canny edge detector

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

* Research more about image processing steps that yields accurate results and developing an algorithm that constantly measures the angle between the lane and the vehicle