

A stylized illustration of a desk setup. In the center is an open laptop with a teal screen and a dark keyboard. To the left of the laptop is a stack of three books in teal, orange, and teal. Above the laptop is a pen holder containing three pens (orange, teal, and orange). To the right of the laptop is a potted plant with long, pointed leaves in teal and orange. In the background, there is a framed map or diagram with orange lines on a teal grid. The entire scene is set against a solid purple background.

CSE428: IMAGE PROCESSING

Lane Detection using IP

Members:

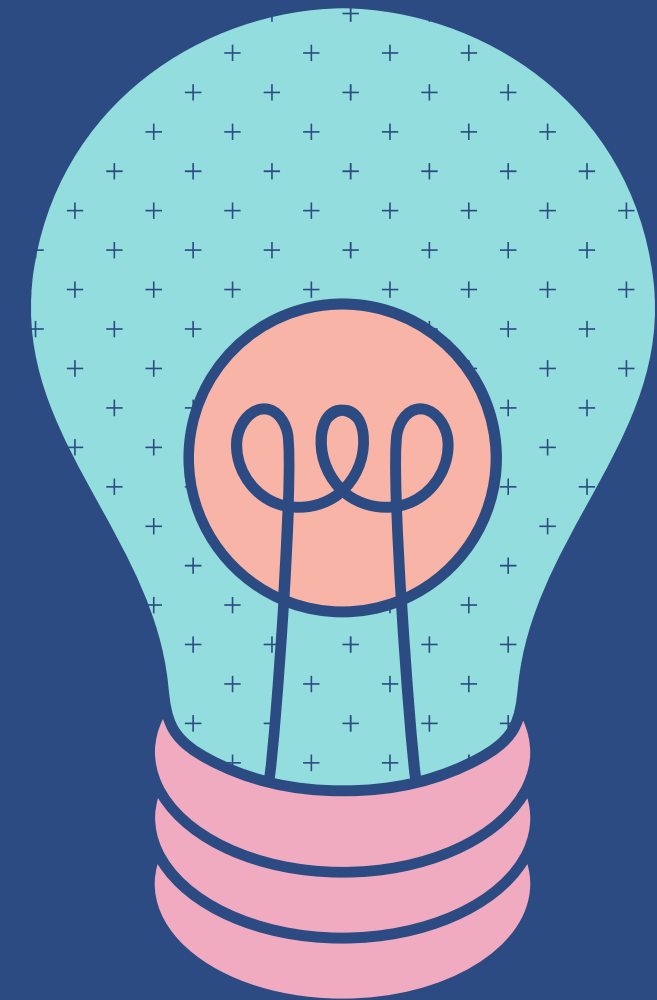
- Name: Mohammed Taher Abdullah
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ID: 19101062

Motivation:

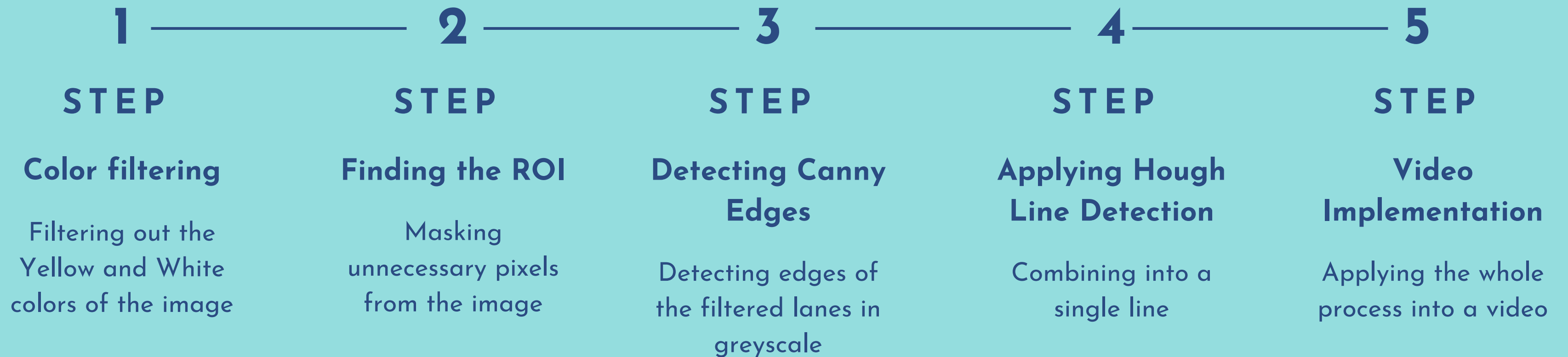
- Using the fundamentals of this course to solve a problem
- Understanding how to put image processing into practice

Problem Statement:

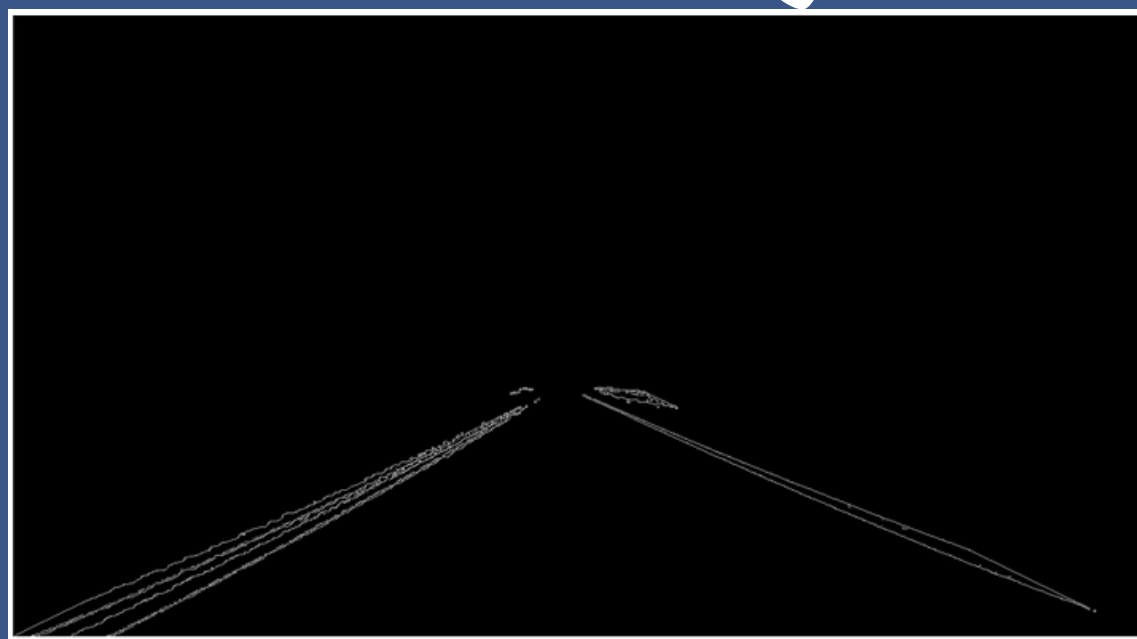
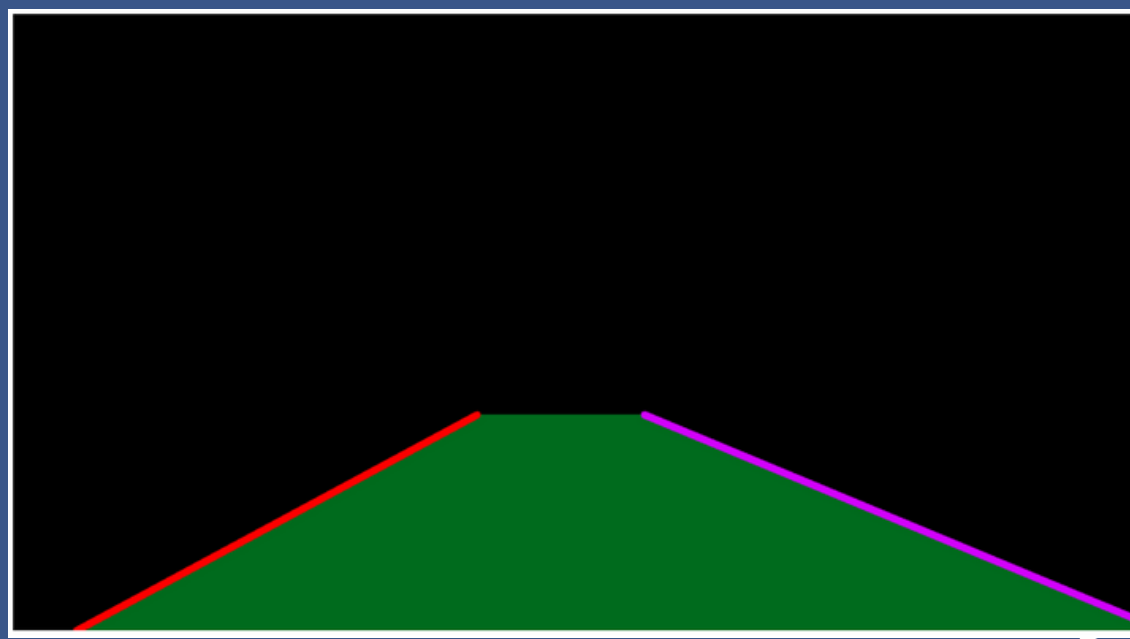
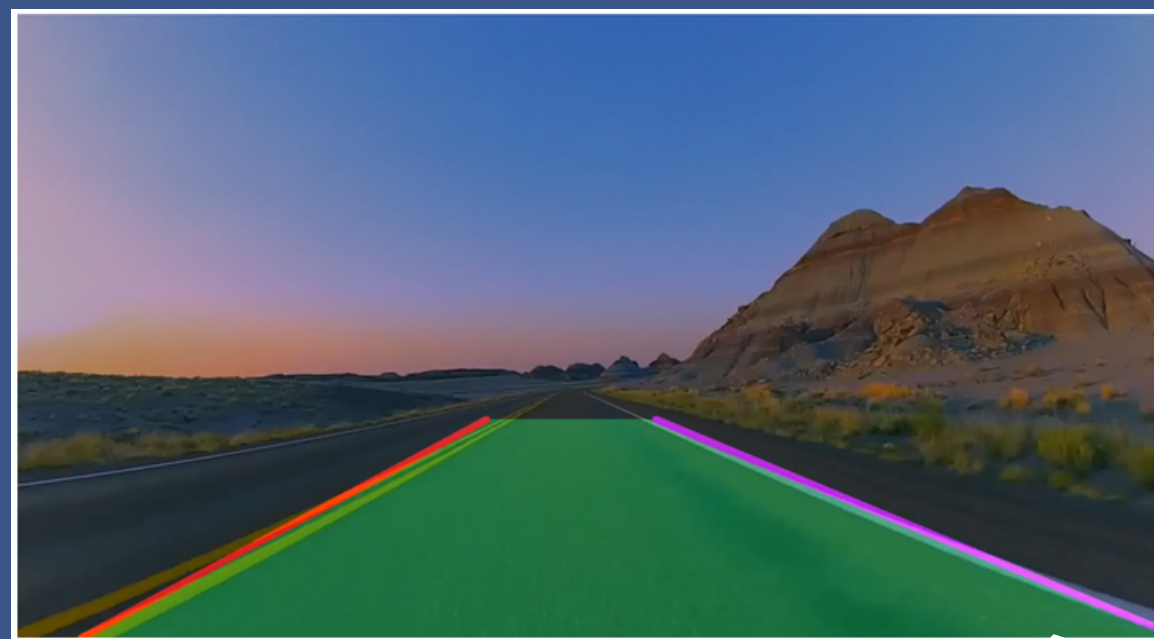
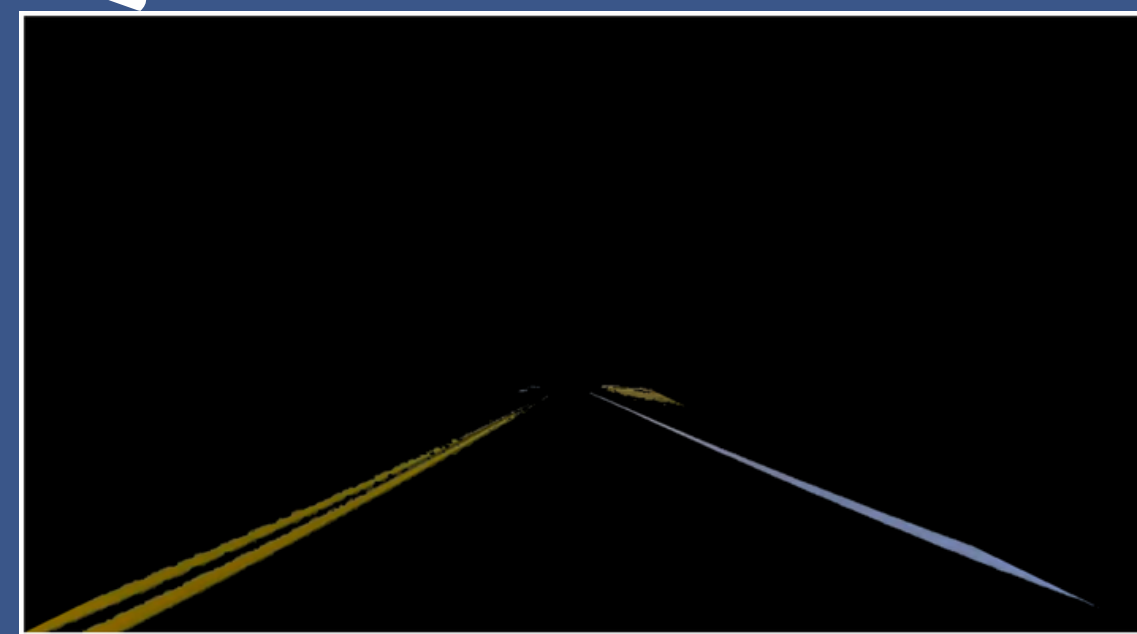
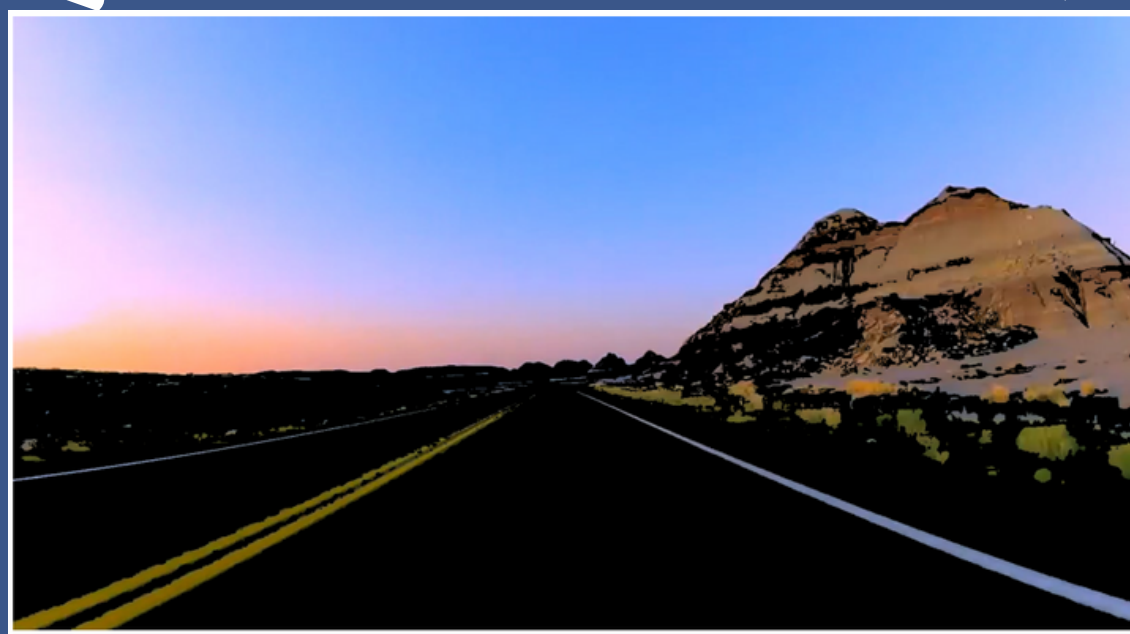
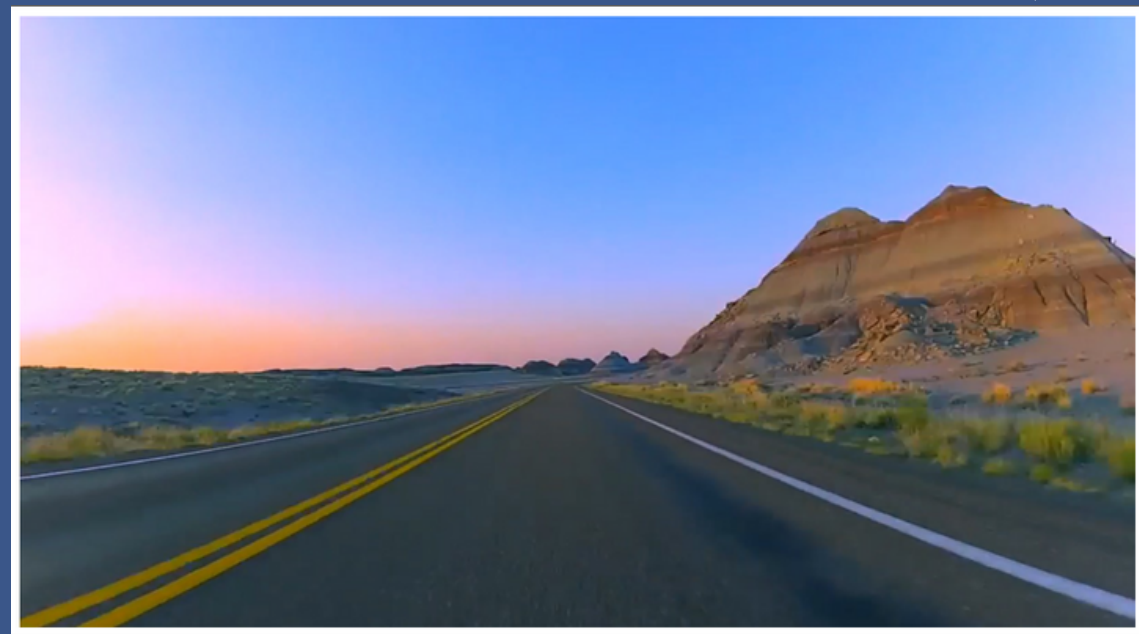
- In our country, there seems to be an rise in the number of road accidents.
- Casualty due to road accidents.
- On the roads, there seems to be some rough driving.



Methodology



Process:



Result & Discussion

Visual representation of our result

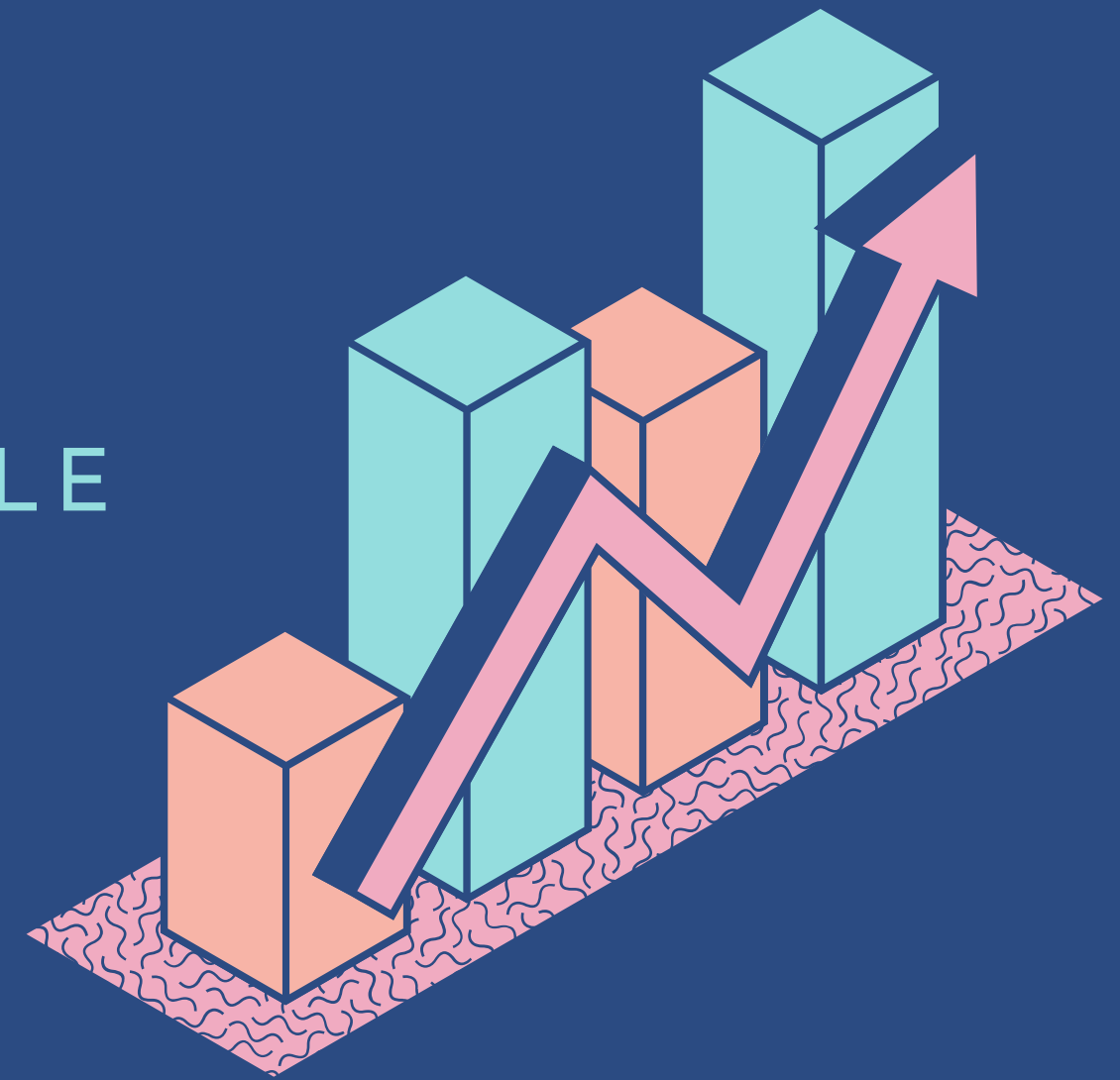
After applying the process in order, we were able to integrate that to this video taken from YouTube



Conclusion And Possible Improvements

MARCH TOWARDS AUTONOMOUS VEHICLE

- Can improve in detecting curved lanes
- Detecting lanes without lane boundaries
- In order for lane identification to work on every route, a neural network model can be trained.



Google Colaboratory

 [google.com](https://colab.google.com)