CIS666 Artificial intelligence

**Detecting lanes on highway**

**Abstract:**

The discovery of Lane Line is a critical issue for self-driving cars and computer vision in general. This concept is used to describe the way cars drive themselves and to avoid the risk of entering another lane.

In this article, we will build a machine learning project to find the lines of lines in real time. We will do this using computer view concepts using the OpenCV library. To find a route we need to get a white mark on both sides of the line.

Using Python's computer viewing techniques, we will identify lines of road lines where private cars should run. This will be a critical part of private vehicles, as self-driving vehicles should not cross the line and should not go in the opposite direction to avoid accidents.

To get a white mark on the line, first, we need to hide every part of the frame. We do this using the frame encryption. Frame is nothing but NumPy values ​​for pixel image values. To hide unwanted frame pixels, we simply update those pixel values ​​to 0 for the same NumPy members.

After we do, we need to find the queues. The method used to determine statistical conditions such as this is called the Hough Transform. Hough modification can get shapes like rectangles, circles, triangles, and lines.

**Complete project file with report.**

Report should include:

* Methodology
* Implementation
* Results
* Discussion and conclusion
* References

(Report should include graphical images)