**ABSTRACT**

**In this work ,we are going to introduce an approach to detect an accurate information about “ LANE DETECTION IN SELF DRIVING CARS”.**

**As we all know that traffic problems and road accidents have become one of the most serious problems in today’s world .Increase in the number of vehicles and human carelessness towards guidelines is contributing a lot to the majority of road accidents.**

**To overcome these problems up to some extent, lane detection can play an essential and vital role in self-driving cars to identify the road area and non-road area.**

**And saving human lives and increasing the safety is one of the most important functions of Intelligent Transformation System (ITS).**

**So through this research paper we are putting our main emphasis to find best ways to improve the results of the lane detection algorithms. Our principle approach is to detect road boundaries and lanes using computer vision system on the vehicle.**

**Computer Vision is a technology that enables autonomous cars to make sense of their surrounding world like human drivers. It’s a branch of Artificial Intelligence that enables the software to understand the content of images and videos. This system acquires the front view using a camera which is mounted on the vehicle, then applying the few processes in order to detect the lanes.**

**In this research paper ,we have implemented and designed an automatic lane detection marking for self-driving cars.**