

# ABSTRACT

## SPEED LIMIT DETECTION FROM TRAFFIC SIGNBOARD USING ARTIFICIAL INTELLIGENCE

In this project, a new technique is implemented for the detection and recognition of road speed limit signs is an important task in advanced driver assistant system. The speed limit signs are important in informing the driver about the allowable speed in a particular area. Most of the traffic accidents happen due to over speed. Different systems are implemented by the government authorities to prevent the accidents due to over speed. Here we propose a new method for speed limit sign detection and recognition in real time. **“Speed limit detection from traffic sign board using artificial intelligence”**. The main aim is driver assistance system. This method has a real time processing ability to remember drivers about the speed limitation when they drive their vehicle in different road conditions. It is implemented inside a vehicle not in the road. As the first part image acquisition and pre-processing is done. Image acquisition can be used Using **“pi”**. Then followed by this, traffic sign board detection such as shape and color, speed limit number detection, number identification and speed limit recognition is done.

This proposed system is a fully automated system thus no manual assistance is needed. This system include features like automated sign board detection & speed limit number identification. Nave base classifier is used and skimage learn machine learning algorithm is used. This system is proposed to implement in Raspberry pi 3+ single board computer using AI. Machine learning algorithm is implemented using Anaconda in Windows.