**TRAFFIC SIGN CLASSIFICATION USING CNN**

**ABSTRACT**

This project presents an effective solution to detecting traffic signs on road by first classifying the traffic sign images using Convolutional Neural Network (CNN) on the German Traffic Sign Recognition Benchmark (GTSRB)and then detecting the images of Indian Traffic Signs using the Indian Dataset which will be used as testing dataset while building classification model. Therefore this system helps electric cars or self driving cars to recognize the traffic signs efficiently and correctly. The system involves two parts, detection of traffic signs from the environment and classification based on CNN thereby recognizing the traffic sign. The classification involves building a CNN model of different filters of dimensions 3 × 3, 5 × 5, 9 × 9, 13 × 13, 15 × 15,19 × 19, 23 × 23, 25 × 25 and 31 ×31 from which the most efficient filter is chosen for further classifying the image detected.

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