Traffic Signs Recognition

The aim of the project is to detect and recognize traffic signs in images. Traffic Sign Recognition (TSR) is used to regulate traffic signs, warn a driver, and command or prohibit certain actions.

There are several different types of traffic signs like speed limits, no entry, traffic signals, turn left or right, children crossing, no passing of heavy vehicles, etc. Traffic signs classification is the process of identifying which class a traffic sign belongs to.

The proposed system uses Convolutional Neural Network (CNN) to train the model. The images are pre-processed equalization is done to enhance the image contrast. The final accuracy on the test dataset is 93%. OpenCV is used for image processing. OpenCV is an Open source Computer Vision library designed for computational efficiency with a strong focus on real time applications

SOFTWARE REQUIREMENTS

- Programming language: Python
- Operating System: Windows 8 or Above
- Platform Used: VS Code

HARDWARE REQUIREMENTS

- RAM: 4 GB
- CPU: Intel Core i5 or Above
- Disk: 1 TB
- Camera

Team Members

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