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Team: PirateMiner

Team Member: Sanjay Bhargav Madamanchi

Project Name: <u>Traffic Sign Recogntion</u>

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Traffic sign Recognition is a software application whose aim is to recognize traffic signs as efficiently as possible. This application tries to solve a major problem of Road Safety which is to classify traffic signs. It also detects and filters the problem with the help of Convolution Neural Networks (CNNs) for image classification and delivers the accurate solution.

Following table contains the requirements of our project:

Requirements:	Details:
1. Gain insights from exploratory analysis of data sources	In order to gain insights, we have to collect the data, perform all preprocessing steps, and then visualize the data using different plots to fully understand it.
2. Get feature engineered attributes from data	In this requirement, we need to create a feature engineering process and output will have important attributes after applying the feature engineering techniques
3. Identify attributes that are used for recognizing the traffic signs	In order to complete this requirement, we need to identify the attributes/features from the data that have the greatest impact on identifying the signs
4. Finally, Develop a CNN model to recognize the signs accurately	In order to complete this requirement, we must use CNN model as it has high accuracy for working on images
5. Prepare project report	To complete this requirement, we have to write a project report with all the details and diagrams.