**School of Computer Engineering and Technology**

**ML Mini Project Synopsis**

**Project Title:** Traffic Sign Recognition

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**Abstract:** Traffic sign recognition is one of the practical important issues in pattern recognition applications accuracy is the main point where we focused. The heart of the problem lies within the ability to develop an efficient algorithm that can recognize traffic signs and whose dataset is taken from kaggle.

**Project Description:**

We are going to make a project which helps to detect traffic signs. Traffic sign recognition is the ability of computers to recognize traffic signs into its class. It is a hard task for the machine because there are a lot of different types of traffic signs. Traffic sign recognition is the solution to this problem which uses the image of a traffic sign and recognizes the traffic sign present in a video or in an image. We are going to use the GTSRB dataset and will apply a CNN model and will check accuracy.

**Hardware Requirements:**

* Processor: Intel Core i3 and above
* RAM:4GB and above
* Hard disk: 80GB and above
* Monitor: CRT or LCD monitor
* Keyboard: Normal or Multimedia
* Mouse: Compatible mouse

**Software Requirements:**

* Google Colab
* Python 3+
* CNN model