**Traffic Sign Recognition**

Self-driving cars need [traffic sign](https://en.wikipedia.org/wiki/Traffic_sign) recognition systems. This project uses computer vision and deep learning to spot and sort road signs with precision. You can reach 95% accuracy with Convolutional Neural Networks (CNN) and the Keras library. The uniqueness of it makes it one of the top project ideas for final year b.tech students The system works in stages:

* Image cleanup and improvement
* Feature extraction with CNN layers
* Sorting signs into categories

**Skills you must have to build this project:**

* Python, OpenCV, TensorFlow/Keras
* [Deep learning](https://www.guvi.in/blog/category/deep-learning/) (CNNs)
* Image classification techniques
* Dataset preprocessing (augmentation, normalization)