

## Problem Statement: Traffic Sign Recognition



Are you excited about the autonomous/ self-driving cars?

If yes, this project is made for you!! All these cars will require a system to identify the traffic signs on roadsides in real-time. Here is an opportunity for you to build one for yourself.

### Dataset options:

#### 1. [German Traffic Sign Dataset](#)

Overview:

- Single-image, multi-class classification problem
- More than 40 classes
- More than 50,000 images in total
- Large, lifelike database
- Reliable ground-truth data due to semi-automatic annotation

#### 2. [Belgian Traffic Sign Dataset](#)

There are a lot of datasets on that page, but you only need the two files listed under BelgiumTSC for Classification (cropped images):

- BelgiumTSC\_Training (171.3MBytes)
- BelgiumTSC\_Testing (76.5MBytes)

- You can build a shallow **Convolution Neural Network** to solve this problem
- I would suggest to firstly try it out yourself, if you can't then follow the links given herewith:
  - <https://medium.com/@sujaybabruwad/how-to-identify-a-traffic-sign-using-machine-learning-7aa98c871469>
  - <https://medium.com/@waleedka/traffic-sign-recognition-with-tensorflow-629dffc391a6>
- If you still don't get it, ask me!
  - Email: [charmichokshi@gmail.com](mailto:charmichokshi@gmail.com)

**Happy Learning! :)**