Capstone Project 3: Project Proposal

Project Title:

“Traffic Sign Recognition”

Project Mentor: Gritank Dhamija

What is the problem to be solved?

Build image classification models which will classify Traffic Sign Images with high accuracy.

Who is this project beneficial for?

This project will be helpful for anyone who is looking forward to build a software for automated driving vehicle.

This project can also be beneficial for those who are beginners in the Deep Learning and CNNs & want to learn how can Deep Learning and CNNs be used for Image Classification.

What data are you using? How will you acquire the data?

This is a popular Kaggle Project. I will be using German Traffic Sign data which can be downloaded from multiple sources, including Kaggle.

Link to the Project/Data - https://www.kaggle.com/meowmeowmeowmeowmeow/gtsrb-german-traffic-sign

Techniques that I would use to solve the problem:

1. Data Wrangling
2. EDA
3. Image Augmentations
4. Keras
5. Convolutional Neural Networks

What are the methods I will use to deliver the project?

I will work on this project using Paperspace Jupyter Notebook.

Paperspace is cloud computing services provider.

References:

Kaggle, StackOverFlow, Github, Google etc.