Traffic Sign Classifier

December 4, 2018

1 Traffic Sign Recognition

1.1 Writeup

1.1.1 You can use this file as a template for your writeup if you want to submit it as a markdown file, but feel free to use some other method and submit a pdf if you prefer.

Build a Traffic Sign Recognition Project

The goals / steps of this project are the following: * Load the data set (see below for links to the project data set) * Explore, summarize and visualize the data set * Design, train and test a model architecture * Use the model to make predictions on new images * Analyze the softmax probabilities of the new images * Summarize the results with a written report

1.2 Rubric Points

1.2.1 Here I will consider the rubric points individually and describe how I addressed each point in my implementation.

1.2.2 Writeup / README

1. Provide a Writeup / README that includes all the rubric points and how you addressed each one. You can submit your writeup as markdown or pdf. You can use this template as a guide for writing the report. The submission includes the project code. You're reading it! and my project code is on the project workspace: CarND-Traffic-Sign-Classifier-Project/Traffic_Sign_Classifier.ipynb)

1.2.3 Data Set Summary & Exploration

1. Provide a basic summary of the data set. In the code, the analysis should be done using python, numpy and/or pandas methods rather than hardcoding results manually. I used the native python len(), and numpy shape and unique to calculate summary statistics of the traffic signs data set:

- The size of training set is 34799
- The size of the validation set is 12630