

Project Submission

DUE Nov 13

Traffic Sign Classifier Project

In this project, you will use what you've learned about deep neural networks and convolutional neural networks to classify traffic signs. Specifically, you'll train a model to classify traffic signs from the **German Traffic Sign Dataset**.

Set Up Your Environment

CarND Starter Kit

Install the car nanodegree starter kit if you have not already done so: carnd starter kit

TensorFlow

If you have access to a GPU, you should follow the TensorFlow instructions for **installing TensorFlow with GPU support**.



Traffic Sign Classifier

Amazon Web Services

Instead of a local GPU, you could use Amazon Web Services to launch an EC2 GPU instance. (This costs money.)

- 1. Follow the Udacity instructions to launch an EC2 GPU instance with the udacity-carnd AMI.
- 2. Complete the **Setup** instructions.

Start the Project

- 1. Download the dataset. This is a pickled dataset in which we've already resized the images to 32x32.
- 2. Clone the project and start the notebook.

git clone https://github.com/udacity/CarND-Traffic-Sign-Classifier-Project cd CarND-Traffic-Sign-Classifier-Project

- 3. Launch the Jupyter notebook: jupyter notebook Traffic_Sign_Classifier.ipynb
- 4. Check out the project rubric
- 5. Follow the instructions in the notebook
- 6. Write your project report

Submission

Before submitting, make sure your project covers all of the rubric points, which can be found here.

When you are ready to submit your project, collect the following files and compress them into a single archive for upload. Alternatively, upload your files to github to link to the project repository:

- The Traffic_Sign_Classifier.ipynb notebook file with all questions answered and all code cells executed and displaying output.
- An HTML or PDF export of the project notebook with the name report.html or report.pdf.
- Any additional datasets or images used for the project that are not from the German Traffic Sign Dataset. Please do not include the project data set provided in the traffic-sign-data.zip file.
- Your writeup report as a markdown or pdf file

If you are unfamiliar with GitHub, Udacity has a brief GitHub tutorial to get you started. Udacity also provides a more detailed free course on git and GitHub.

To learn about REAMDE files and Markdown, Udacity provides a free course on READMEs, as well.