In my final project, I would like to build a traffic sign recognition and classification.
I want to combine knowledge we learn in this class in the project.
I have already downloaded some traffic signs to train the network. I will use these pictures as training dataset.Here are the pictures I downloaded:

In the project, I want to do recognize first, I will use my phone to get some traffic signs and detect the traffic sign from the photos. Then I will resize the traffic signs I detected before into 32x32. Because of light and weather, some photos will be dark, blurry and some have noisy. So I need to increase the brightness, sharpe the photo and de-noise. After these operations, I will get some photo such like he training dataset.
For the training dataset I take above, I will use the training dataset to train the neuron network. I haven't decide which kind neuron network I will choose.
After building an appropriate architecture of neuron network, I will use the photos I got before to test the neuron network. In the final I will input my photos and output the classification of these photo. I also want to show the accuracy.

That is my proposal, the project including detecting traffic sign, processing traffic sign and classifying traffic sign.