0616066_HW1 Report

1. github link: https://github.com/ryanlu2240/2020fall_DLCV
2. reference: https://github.com/kuangliu/pytorch-cifar
3. I use resnet34 as my network backbone, follow by a fully connect layer with 196 classes, I use horizontal flip and rotation as my data augmentation. I didn't spilt the training data for testing validation because I found out that the testing data is similar to the training data, so even the model may be overfitting to the training dataset but I think is ok.
4. Abut the preprocessing, In order to use the torch.dataset.imagefolder, I spilt the training dataset into their class folder, and the model use res34 as backbone, the about the hyperparameters, batch size = 32, epoch = 30, learning rate = 0.01. the training accuracy is 99.8 and the testing accuracy is 89.5.
5. Data augmentation is very important and convolutional network work really well with classification problem.