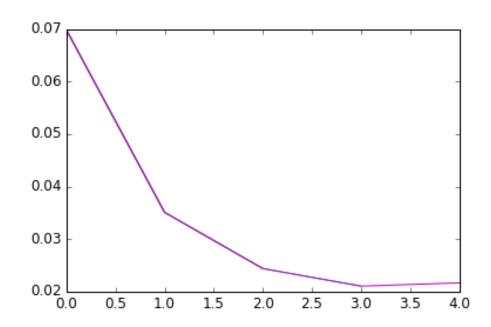
HW6: CNNs and Transfer Learning Report

1. Test loss curve on MNIST-1459

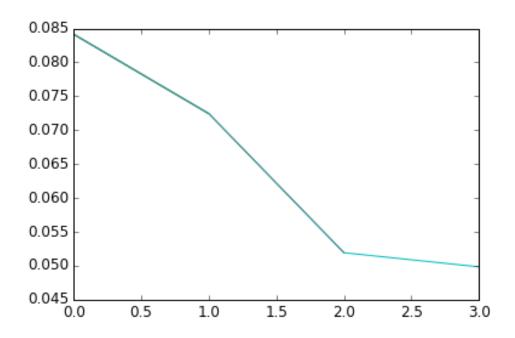


- 2. Test loss curve on transferred MNIST-023678:
- a. with fine-tuning everything

Uncomment the below two lines for fine-tuning everything:

optimizer = tf.train.AdamOptimizer(name="adam_023678")

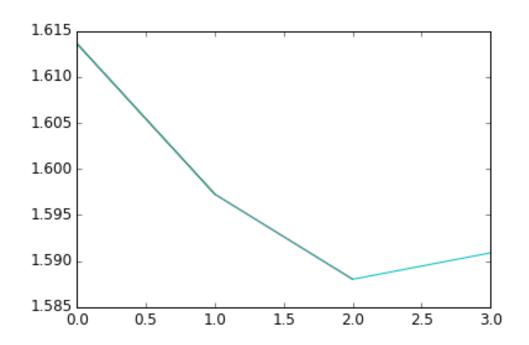
training_op = optimizer.minimize(loss) #without freeze



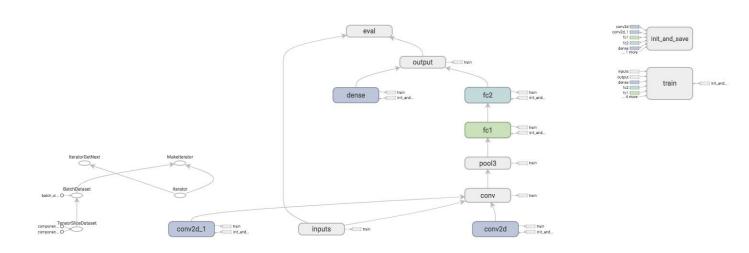
b. with frozen layers up to fc2 (and not including)

Uncomment below three lines for frozen layers upto fc2 not including:

training_op = optimizer.minimize(loss, var_list=train_vars)

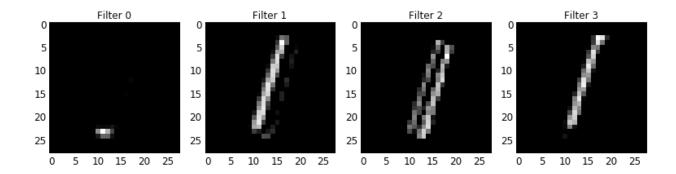


3. Final execution graph.

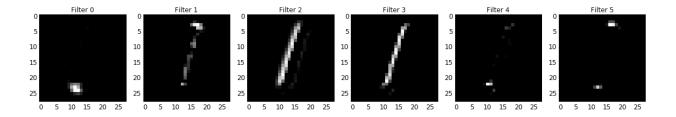


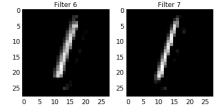
4. Visualized filter maps

a. conv1



b. Conv2





C. Pool

