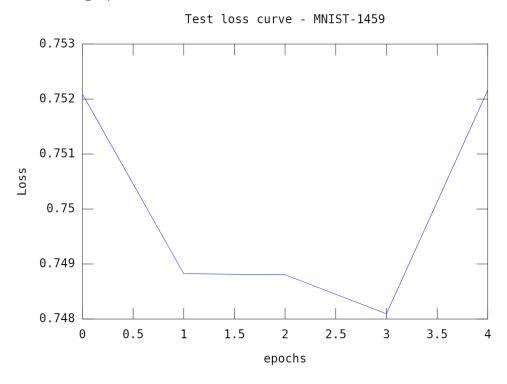
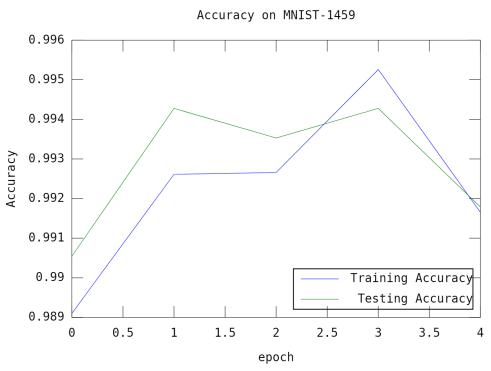
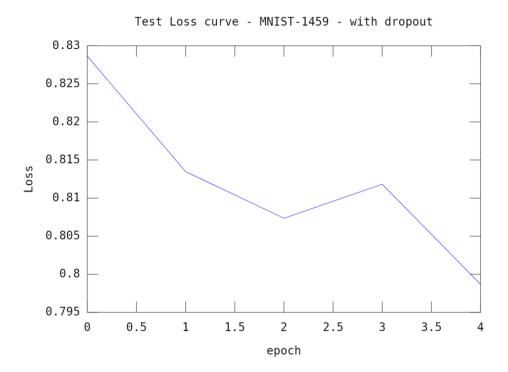
CSE527: HW6

Submitted by: Gaurav Ahuja

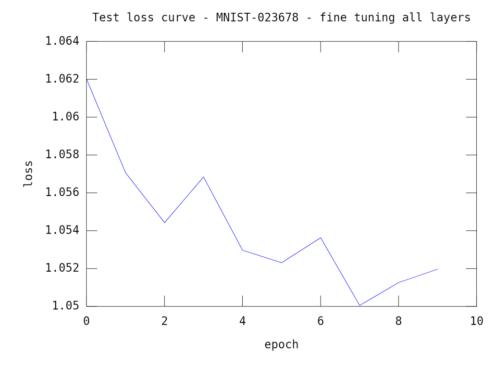
1. Make a graph of test loss curve with MATLAB on MNIST-1459



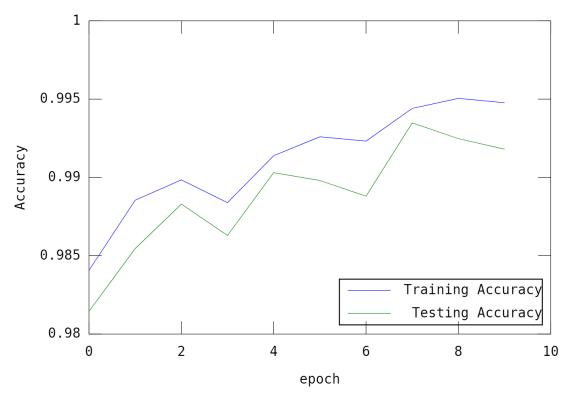




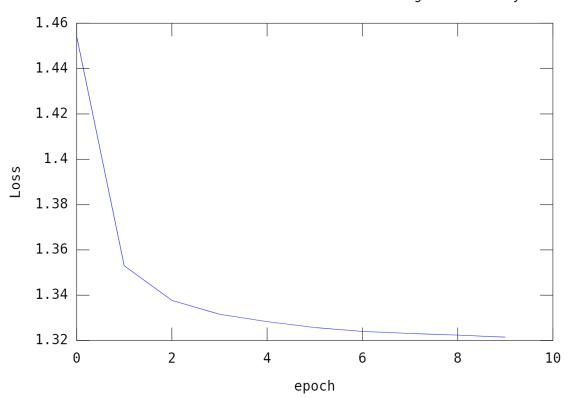
2. Make two graphs of test loss curve with MATLAB on MNIST-023678 (two conditions)



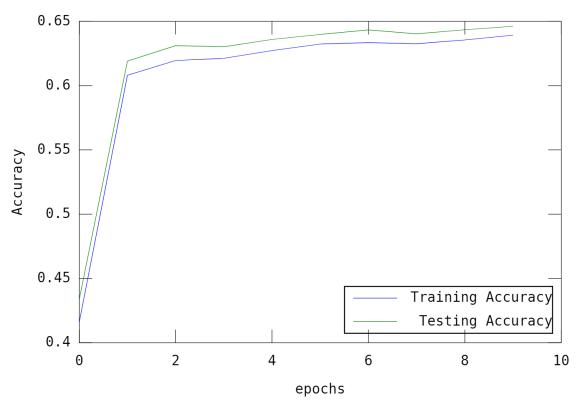
Accuracy MNIST-023678 - finetuning all layers



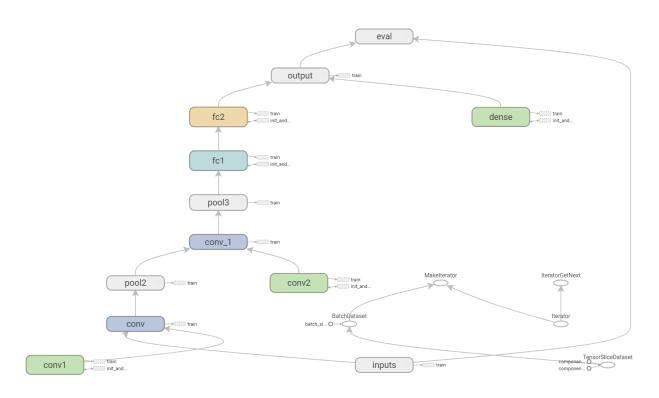
Test loss curve - MNIST-023678 - freezing initial layers



Accuracy - MNIST-023678 - freezing initial layers



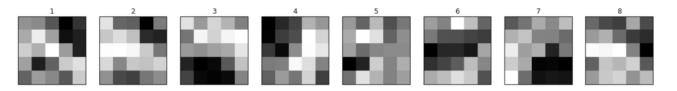
3. Final execution graph



4. Visualized filter maps for bonus 2

(a) Visualizing convolution kernels

Layer 1: 8 filters of size 5x5

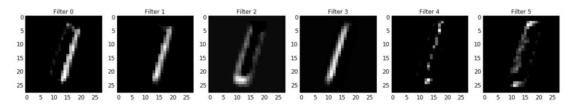


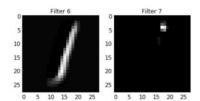
Layer 2: 16 filters, each of size 3x3x8



(b) Visualizing activations in conv1, conv2 and pool layers

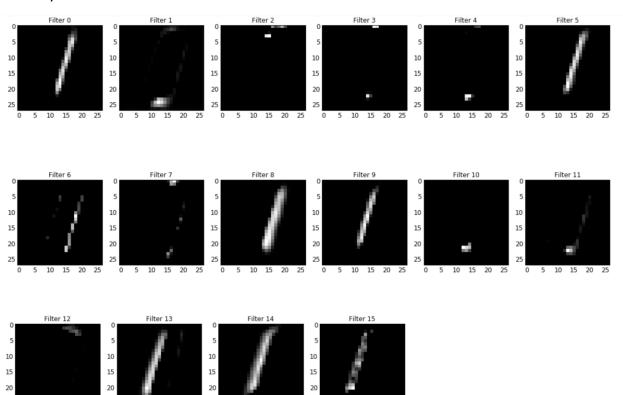
Conv1 layer activations:





5 10 15 20 25

Conv layer 2 activations:



Pool layer after conv2 layer activations:

