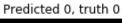
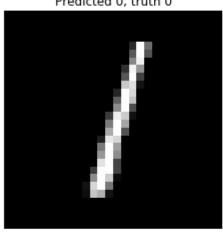
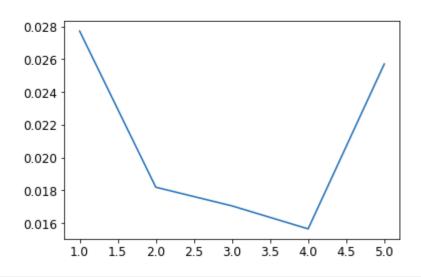
Training... 0 Train accuracy: 0.989784 Test accuracy: 0.991787 1 Train accuracy: 0.994071 Test accuracy: 0.993529 2 Train accuracy: 0.995257 Test accuracy: 0.994525 3 Train accuracy: 0.99813 Test accuracy: 0.994276 4 Train accuracy: 0.995759 Test accuracy: 0.991538 Finished training Saving...



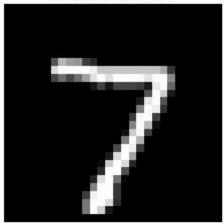


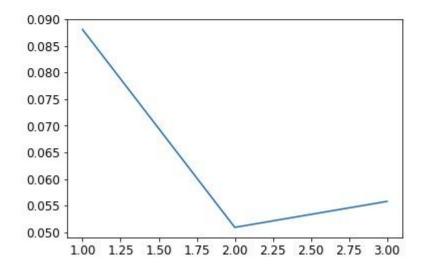


ptt.SHOW()

Training 023678...
after init run
after batched dataset called
after next batch
INFO:tensorflow:Restoring parameters from ./my_model_1459.ckpt
for every epoch
exception occurred
0 Train accuracy: 0.980619 Test accuracy: 0.977934
for every epoch
exception occurred
1 Train accuracy: 0.99229 Test accuracy: 0.983618
for every epoch
exception occurred
2 Train accuracy: 0.995797 Test accuracy: 0.9888
Finished training

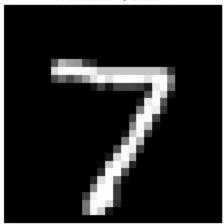
Predicted 4, truth 4

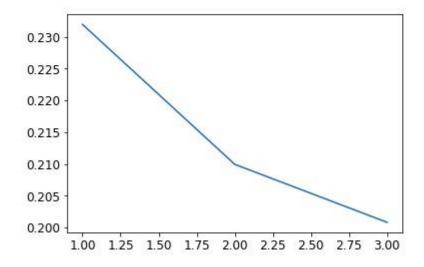




Training 023678...
after init run
after batched dataset called
after next batch
INFO:tensorflow:Restoring parameters from ./my_model_1459.ckpt
for every epoch
exception occurred
0 Train accuracy: 0.925589 Test accuracy: 0.924941
for every epoch
exception occurred
1 Train accuracy: 0.93342 Test accuracy: 0.933467
for every epoch
exception occurred
2 Train accuracy: 0.935718 Test accuracy: 0.936978
Finished training

Predicted 4, truth 4





ACTIVATION - CONV1

```
In [45]: import math

with tf.Session() as sess:

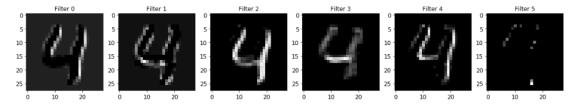
    saver.restore(sess, "./my_model_1459.ckpt")
    # getActivations(tf.get_default_graph().get_tensor_by_name(...), X_1459_test[0])
    imageToUse = mnist.test.images[4]

# plt.imshow(np.reshape(imageToUse,[28,28]), interpolation="nearest", cmap="gray")
# print ("Activation from Layer 1 Convolution")
    getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv1/Relu:0"), imageToUse)

# print ("Activation from Layer 2 (pnvolution")
# getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv2/Relu:0"), imageToUse)

# getActivations(tf.get_default_graph().get_tensor_by_name("pool3/pool:0"), X_1459_test[0])
```

INFO:tensorflow:Restoring parameters from ./my_model_1459.ckpt



ACTIVATION – CONV2

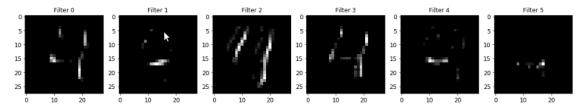
```
In [46]: import math

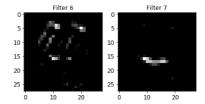
with tf.Session() as sess:

    saver.restore(sess, "./my_model_1459.ckpt")
    # getActivations(tf.get_default_graph().get_tensor_by_name(...), X_1459_test[0])
    imageToUse = mnist.test.images[4]
    # plt.imshow(np.reshape(imageToUse,[28,28]), interpolation="nearest", cmap="gray")
    # print ("Activation from Layer 1 Convolution")
    # getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv1/Relu:0"), imageToUse)
    # print ("Activation from Layer 2 Convolution")
    getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv2/Relu:0"), imageToUse)

# getActivations(tf.get_default_graph().get_tensor_by_name("pool3/pool:0"), X_1459_test[0])
```

INFO:tensorflow:Restoring parameters from ./my_model_1459.ckpt





ACTIVATION - POOL

```
# getActivations(tf.get_default_graph().get_tensor_by_name(...), X_1459_test[0])
imageToUse = mnist.test.images[4]

# plt.imshow(np.reshape(imageToUse,[28,28]), interpolation="nearest", cmap="gray")

# print ("Activation from Layer 1 Convolution")

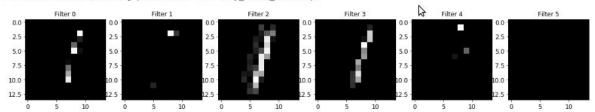
# getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv1/Relu:0"), imageToUse)

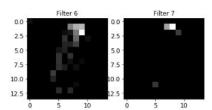
# print ("Activation from Layer 2 Convolution")

# getActivations(tf.get_default_graph().get_tensor_by_name("conv/cv2/Relu:0"), imageToUse)

getActivations(tf.get_default_graph().get_tensor_by_name("pool3/pool:0"), X_1459_test[0])
```

INFO:tensorflow:Restoring parameters from ./my_model_1459.ckpt





FINAL EXECUTION GRAPH

Show the Execution Graph

```
In [48]: reset_graph()

# restore the graph of 1459
restore_saver = tf.train.import_meta_graph("./my_model_1459.ckpt.meta")
show_graph(tf.get_default_graph())
```