sess.run(training\_operation, feed\_dict={x: batch\_x, y: batch\_y, keep\_prob: 0.75})

rate = 0.0005  
save\_file = **'./final\_model.ckpt'**

EPOCHS = 95  
BATCH\_SIZE = 128

2018-01-03 20:09:57.641500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Training...

Epoch: 0

EPOCH 1 ...

Validation Accuracy = 0.217

Epoch: 1

EPOCH 2 ...

Validation Accuracy = 0.392

Epoch: 2

EPOCH 3 ...

Validation Accuracy = 0.513

Epoch: 3

EPOCH 4 ...

Validation Accuracy = 0.622

Epoch: 4

EPOCH 5 ...

Validation Accuracy = 0.725

Epoch: 5

EPOCH 6 ...

Validation Accuracy = 0.766

Epoch: 6

EPOCH 7 ...

Validation Accuracy = 0.787

Epoch: 7

EPOCH 8 ...

Validation Accuracy = 0.806

Epoch: 8

EPOCH 9 ...

Validation Accuracy = 0.812

Epoch: 9

EPOCH 10 ...

Validation Accuracy = 0.846

Epoch: 10

EPOCH 11 ...

Validation Accuracy = 0.855

Epoch: 11

EPOCH 12 ...

Validation Accuracy = 0.851

Epoch: 12

EPOCH 13 ...

Validation Accuracy = 0.854

Epoch: 13

EPOCH 14 ...

Validation Accuracy = 0.866

Epoch: 14

EPOCH 15 ...

Validation Accuracy = 0.865

Epoch: 15

EPOCH 16 ...

Validation Accuracy = 0.871

Epoch: 16

EPOCH 17 ...

Validation Accuracy = 0.878

Epoch: 17

EPOCH 18 ...

Validation Accuracy = 0.866

Epoch: 18

EPOCH 19 ...

Validation Accuracy = 0.894

Epoch: 19

EPOCH 20 ...

Validation Accuracy = 0.899

Epoch: 20

EPOCH 21 ...

Validation Accuracy = 0.886

Epoch: 21

EPOCH 22 ...

Validation Accuracy = 0.894

Epoch: 22

EPOCH 23 ...

Validation Accuracy = 0.915

Epoch: 23

EPOCH 24 ...

Validation Accuracy = 0.911

Epoch: 24

EPOCH 25 ...

Validation Accuracy = 0.879

Epoch: 25

EPOCH 26 ...

Validation Accuracy = 0.907

Epoch: 26

EPOCH 27 ...

Validation Accuracy = 0.919

Epoch: 27

EPOCH 28 ...

Validation Accuracy = 0.890

Epoch: 28

EPOCH 29 ...

Validation Accuracy = 0.885

Epoch: 29

EPOCH 30 ...

Validation Accuracy = 0.920

Epoch: 30

EPOCH 31 ...

Validation Accuracy = 0.916

Epoch: 31

EPOCH 32 ...

Validation Accuracy = 0.918

Epoch: 32

EPOCH 33 ...

Validation Accuracy = 0.923

Epoch: 33

EPOCH 34 ...

Validation Accuracy = 0.897

Epoch: 34

EPOCH 35 ...

Validation Accuracy = 0.910

Epoch: 35

EPOCH 36 ...

Validation Accuracy = 0.933

Epoch: 36

EPOCH 37 ...

Validation Accuracy = 0.906

Epoch: 37

EPOCH 38 ...

Validation Accuracy = 0.930

Epoch: 38

EPOCH 39 ...

Validation Accuracy = 0.926

Epoch: 39

EPOCH 40 ...

Validation Accuracy = 0.930

Epoch: 40

EPOCH 41 ...

Validation Accuracy = 0.912

Epoch: 41

EPOCH 42 ...

Validation Accuracy = 0.923

Epoch: 42

EPOCH 43 ...

Validation Accuracy = 0.926

Epoch: 43

EPOCH 44 ...

Validation Accuracy = 0.935

Epoch: 44

EPOCH 45 ...

Validation Accuracy = 0.916

Epoch: 45

EPOCH 46 ...

Validation Accuracy = 0.920

Epoch: 46

EPOCH 47 ...

Validation Accuracy = 0.929

Epoch: 47

EPOCH 48 ...

Validation Accuracy = 0.939

Epoch: 48

EPOCH 49 ...

Validation Accuracy = 0.903

Epoch: 49

EPOCH 50 ...

Validation Accuracy = 0.938

Epoch: 50

EPOCH 51 ...

Validation Accuracy = 0.949

Epoch: 51

EPOCH 52 ...

Validation Accuracy = 0.925

Epoch: 52

EPOCH 53 ...

Validation Accuracy = 0.939

Epoch: 53

EPOCH 54 ...

Validation Accuracy = 0.935

Epoch: 54

EPOCH 55 ...

Validation Accuracy = 0.940

Epoch: 55

EPOCH 56 ...

Validation Accuracy = 0.933

Epoch: 56

EPOCH 57 ...

Validation Accuracy = 0.932

Epoch: 57

EPOCH 58 ...

Validation Accuracy = 0.945

Epoch: 58

EPOCH 59 ...

Validation Accuracy = 0.944

Epoch: 59

EPOCH 60 ...

Validation Accuracy = 0.933

Epoch: 60

EPOCH 61 ...

Validation Accuracy = 0.933

Epoch: 61

EPOCH 62 ...

Validation Accuracy = 0.939

Epoch: 62

EPOCH 63 ...

Validation Accuracy = 0.930

Epoch: 63

EPOCH 64 ...

Validation Accuracy = 0.927

Epoch: 64

EPOCH 65 ...

Validation Accuracy = 0.926

Epoch: 65

EPOCH 66 ...

Validation Accuracy = 0.940

Epoch: 66

EPOCH 67 ...

Validation Accuracy = 0.927

Epoch: 67

EPOCH 68 ...

Validation Accuracy = 0.926

Epoch: 68

EPOCH 69 ...

Validation Accuracy = 0.919

Epoch: 69

EPOCH 70 ...

Validation Accuracy = 0.940

Epoch: 70

EPOCH 71 ...

Validation Accuracy = 0.934

Epoch: 71

EPOCH 72 ...

Validation Accuracy = 0.945

Epoch: 72

EPOCH 73 ...

Validation Accuracy = 0.930

Epoch: 73

EPOCH 74 ...

Validation Accuracy = 0.944

Epoch: 74

EPOCH 75 ...

Validation Accuracy = 0.925

Epoch: 75

EPOCH 76 ...

Validation Accuracy = 0.927

Epoch: 76

EPOCH 77 ...

Validation Accuracy = 0.946

Epoch: 77

EPOCH 78 ...

Validation Accuracy = 0.924

Epoch: 78

EPOCH 79 ...

Validation Accuracy = 0.930

Epoch: 79

EPOCH 80 ...

Validation Accuracy = 0.943

Epoch: 80

EPOCH 81 ...

Validation Accuracy = 0.936

Epoch: 81

EPOCH 82 ...

Validation Accuracy = 0.940

Epoch: 82

EPOCH 83 ...

Validation Accuracy = 0.941

Epoch: 83

EPOCH 84 ...

Validation Accuracy = 0.941

Epoch: 84

EPOCH 85 ...

Validation Accuracy = 0.948

Epoch: 85

EPOCH 86 ...

Validation Accuracy = 0.939

Epoch: 86

EPOCH 87 ...

Validation Accuracy = 0.936

Epoch: 87

EPOCH 88 ...

Validation Accuracy = 0.939

Epoch: 88

EPOCH 89 ...

Validation Accuracy = 0.944

Epoch: 89

EPOCH 90 ...

Validation Accuracy = 0.939

Epoch: 90

EPOCH 91 ...

Validation Accuracy = 0.934

Epoch: 91

EPOCH 92 ...

Validation Accuracy = 0.949

Epoch: 92

EPOCH 93 ...

Validation Accuracy = 0.925

Epoch: 93

EPOCH 94 ...

Validation Accuracy = 0.951

Epoch: 94

EPOCH 95 ...

Validation Accuracy = 0.948

Model saved

with tf.Session() as sess:

sess.run(tf.global\_variables\_initializer())

saver2 = tf.train.import\_meta\_graph('./final\_model.ckpt.meta')

saver2.restore(sess, "./final\_model.ckpt")

test\_accuracy = evaluate(X\_test, y\_test)

print("Test Set Accuracy = {:.3f}".format(test\_accuracy))

2018-01-03 20:21:01.932500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Test Set Accuracy = 0.939

with tf.Session() as sess:

sess.run(tf.global\_variables\_initializer())

saver2 = tf.train.import\_meta\_graph('./final\_model.ckpt.meta')

saver2.restore(sess, "./final\_model.ckpt")

test\_accuracy = evaluate(X\_test, y\_test)

print("Test Set Accuracy = {:.3f}".format(test\_accuracy))

2018-01-03 20:21:06.590500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Test Set Accuracy = 0.939

with tf.Session() as sess:

sess.run(tf.global\_variables\_initializer())

saver2 = tf.train.import\_meta\_graph('./final\_model.ckpt.meta')

saver2.restore(sess, "./final\_model.ckpt")

test\_accuracy = evaluate(X\_test, y\_test)

print("Test Set Accuracy = {:.3f}".format(test\_accuracy))

2018-01-03 20:21:10.547500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Test Set Accuracy = 0.939

with tf.Session() as sess:

sess.run(tf.global\_variables\_initializer())

saver2 = tf.train.import\_meta\_graph('./final\_model.ckpt.meta')

saver2.restore(sess, "./final\_model.ckpt")

test\_accuracy = evaluate(X\_test, y\_test)

print("Test Set Accuracy = {:.3f}".format(test\_accuracy))

2018-01-03 20:21:14.273500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Test Set Accuracy = 0.939

with tf.Session() as sess:

sess.run(tf.global\_variables\_initializer())

saver2 = tf.train.import\_meta\_graph('./final\_model.ckpt.meta')

saver2.restore(sess, "./final\_model.ckpt")

test\_accuracy = evaluate(X\_test, y\_test)

print("Test Set Accuracy = {:.3f}".format(test\_accuracy))

2018-01-03 20:21:18.147500: I C:\tf\_jenkins\home\workspace\rel-win\M\windows-gpu\PY\36\tensorflow\core\common\_runtime\gpu\gpu\_device.cc:1045] Creating TensorFlow device (/gpu:0) -> (device: 0, name: GeForce GTX 1060 6GB, pci bus id: 0000:01:00.0)

Test Set Accuracy = 0.939