keras_tensorboard

December 7, 2018

```
In [1]: !wget https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip
       !unzip ngrok-stable-linux-amd64.zip
--2018-12-05 06:33:12-- https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.zip
Resolving bin.equinox.io (bin.equinox.io)... 54.152.127.232, 52.44.92.122, 54.165.51.142, ...
Connecting to bin.equinox.io (bin.equinox.io)|54.152.127.232|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 5363700 (5.1M) [application/octet-stream]
Saving to: ngrok-stable-linux-amd64.zip
2018-12-05 06:33:14 (3.44 MB/s) - ngrok-stable-linux-amd64.zip saved [5363700/5363700]
Archive: ngrok-stable-linux-amd64.zip
  inflating: ngrok
0.1 Run TensorBoard
In [0]: LOG_DIR = './log'
       get_ipython().system_raw(
           'tensorboard --logdir {} --host 0.0.0.0 --port 6006 &'
           .format(LOG DIR)
       )
0.2 Run ngrok
In [0]: get_ipython().system_raw('./ngrok http 6006 &')
0.3 Get URL
Run the next cell to start the training before open the url.
In [4]: ! curl -s http://localhost:4040/api/tunnels | python3 -c \
           "import sys, json; print(json.load(sys.stdin)['tunnels'][0]['public_url'])"
http://b403ebe9.ngrok.io
```

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In [5]: !unzip Daily.zip
        !unzip Weekly.zip
        !unzip FourHour.zip
        !unzip OneHour.zip
        !unzip ThirtyMin.zip
        !unzip FifteenMin.zip
Archive: Daily.zip
   creating: Daily/
  creating: Daily/Correction/
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inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0089.png
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0090.png
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0091.png
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0092.png
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0093.png
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0094.png
```

```
inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0095.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0096.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0097.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0098.png
  inflating: ThirtyMin/UpTrend/XAUUSD 30m Up0099.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0100.png
  inflating: ThirtyMin/UpTrend/XAUUSD 30m Up0101.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0102.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0103.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0104.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0105.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0106.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0107.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0108.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0109.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0110.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0111.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0112.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0113.png
  inflating: ThirtyMin/UpTrend/XAUUSD 30m Up0114.png
  inflating: ThirtyMin/UpTrend/XAUUSD 30m Up0115.png
  inflating: ThirtyMin/UpTrend/XAUUSD 30m Up0116.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0117.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0118.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0119.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0120.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0121.png
  inflating: ThirtyMin/UpTrend/XAUUSD_30m_Up0122.png
Archive: FifteenMin.zip
   creating: FifteenMin/
   creating: FifteenMin/Correction/
   creating: FifteenMin/DownTrend/
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0000.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0001.png
  inflating: FifteenMin/DownTrend/XAUUSD 15m Down0002.png
  inflating: FifteenMin/DownTrend/XAUUSD 15m Down0003.png
  inflating: FifteenMin/DownTrend/XAUUSD 15m Down0004.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0005.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0006.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0007.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0008.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0009.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0010.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0011.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0012.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0013.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0014.png
  inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0015.png
```

```
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0016.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0017.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0018.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0019.png
inflating: FifteenMin/DownTrend/XAUUSD 15m Down0020.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0021.png
inflating: FifteenMin/DownTrend/XAUUSD 15m Down0022.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0023.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0024.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0025.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0026.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0027.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0028.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0029.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0030.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0031.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0032.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0033.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0034.png
inflating: FifteenMin/DownTrend/XAUUSD 15m Down0035.png
inflating: FifteenMin/DownTrend/XAUUSD 15m Down0036.png
inflating: FifteenMin/DownTrend/XAUUSD 15m Down0037.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0038.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0039.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0040.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0041.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0042.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0043.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0044.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0045.png
inflating: FifteenMin/DownTrend/XAUUSD_15m_Down0046.png
creating: FifteenMin/UpTrend/
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0000.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0001.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0002.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0003.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0004.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0005.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0006.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0007.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0008.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0009.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0010.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0011.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0012.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0013.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0014.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0015.png
```

```
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0016.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0017.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0018.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0019.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0020.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0021.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0022.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0023.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0024.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0025.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0026.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0027.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0028.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0029.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0030.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0031.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0032.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0033.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0034.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0035.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0036.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0037.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0038.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0039.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0040.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0041.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0042.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0043.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0044.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0045.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0046.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0047.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0048.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0049.png
inflating: FifteenMin/UpTrend/XAUUSD 15m Up0050.png
inflating: FifteenMin/UpTrend/XAUUSD_15m_Up0051.png
```

0.4 Run a Keras model with TenorBoard

CNN

```
In [1]: # DATA FEED IN AND PRE-PROCESSING -- CNN
    import numpy as np
    import cv2
height = 389
```

```
num_up = [6, 40, 97, 67, 123, 52]
num_down = [6, 40, 108, 62, 122, 47]
num_co = [84, 345, 0, 0, 0, 0]
timeframe = ['Weekly', 'Daily', 'FourHour', 'OneHour', 'ThirtyMin', 'FifteenMin']
TF = ['_weekly', '', '_4H', '_1H', '_30m', '_15m']
numbers = sum(num_up) + sum(num_down) + sum(num_co) #num_up + num_down + num_co #40+97
fresize = 0.4
height = int(height*fresize)+1
batch_size = 128
num_classes = 3
# input image dimensions
img_rows, img_cols = height, height
x_data = np.zeros((numbers, height, height, 1))
y_data = np.zeros(numbers)
count = 0
for i in range(len(num_up)):
  # up trend
  for j in range(num_up[i]):
    if i == 1 and j == 0:# Daily
        path = timeframe[i] + '/UpTrend/XAUUSD'+ TF[i] + '_Up' + '%04d'% j + '.PNG'
    else:
        path = timeframe[i] + '/UpTrend/XAUUSD'+ TF[i] + '_Up' + '%04d'% j + '.png'
    img = cv2.imread(path,0)
    if i < 2: # Weekly, Daily</pre>
        img = img[50:439, 1136-389:1136].astype('float32')
    else:
        img = img[50:439, 1178-389:1178].astype('float32')
    img = img/255
    img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
    x_data[count,:,:,0] = img
    y_data[count] = y_data[count]
    count += 1
  # down trend
  for j in range(num_down[i]):
    if i == 1 and j == 0:# Daily
        path = timeframe[i] + '/DownTrend/XAUUSD'+ TF[i] + '_Down' + '%04d'% j + '.PNG
    else:
        path = timeframe[i] + '/DownTrend/XAUUSD'+ TF[i] + '_Down' + '%04d'% j + '.png
```

weekly, daily, 4H, 1H, 30M, 15M

```
if i < 2: # Weekly, Daily</pre>
                img = img[50:439, 1136-389:1136].astype('float32')
            else:
                img = img[50:439, 1178-389:1178].astype('float32')
            img = img/255
            img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
            x_data[count,:,:,0] = img
            y_data[count] = 1
            count += 1
          # correction
          for j in range(num_co[i]):
            path = timeframe[i] + '/Correction/XAUUSD'+ TF[i] + '_Correction' + '%04d'% j + '.;
            img = cv2.imread(path,0)
            if i < 2: # Weekly, Daily</pre>
                img = img[50:439, 1136-389:1136].astype('float32')
            else:
                img = img[50:439, 1178-389:1178].astype('float32')
            img = img/255
            img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
            x_data[count,:,:,0] = img
            y_{data[count]} = 2
            count += 1
        # SHUFFLE TRAINING AND TESTING DATA
        from sklearn import model_selection
        import keras
        x_train, x_test, y_train, y_test = model_selection.train_test_split(x_data, y_data, te
        y_train = keras.utils.to_categorical(y_train, num_classes)
        y_test = keras.utils.to_categorical(y_test, num_classes)
Using TensorFlow backend.
In [2]: # CNN
        from __future__ import print_function
        import keras
        from keras.datasets import mnist
```

img = cv2.imread(path,0)

```
from keras.layers import Dense, Dropout, Flatten
       from keras.layers import Conv2D, MaxPooling2D
       from keras import backend as K
       from keras.callbacks import TensorBoard
       epochs = 100
       input_shape = (img_rows, img_cols, 1)
      model = Sequential()
       model.add(Conv2D(32, kernel_size=(3, 3),
                     activation='relu',
                     input_shape=input_shape))
       model.add(Conv2D(64, (3, 3), activation='relu'))
       model.add(MaxPooling2D(pool_size=(2, 2)))
      model.add(Dropout(0.25))
       model.add(Flatten())
       model.add(Dense(128, activation='relu'))
       model.add(Dropout(0.5))
       model.add(Dense(num_classes, activation='softmax'))
      model.compile(loss=keras.losses.categorical_crossentropy,
                   optimizer=keras.optimizers.SGD(lr=0.001),
                   metrics=['accuracy'])
       tbCallBack = TensorBoard(log_dir='./log', histogram_freq=1,
                            write_graph=True,
                            write_grads=True,
                            batch_size=batch_size,
                            write_images=True)
      model.fit(x_train, y_train,
               batch_size=batch_size,
               epochs=epochs,
               verbose=1,
               validation_data=(x_test, y_test),
               callbacks=[tbCallBack])
       score = model.evaluate(x_test, y_test, verbose=0)
       print('Test loss:', score[0])
       print('Test accuracy:', score[1])
Train on 1079 samples, validate on 120 samples
Epoch 1/100
Epoch 2/100
Epoch 3/100
```

from keras.models import Sequential

```
Epoch 4/100
Epoch 5/100
Epoch 6/100
Epoch 7/100
Epoch 8/100
Epoch 9/100
Epoch 10/100
Epoch 11/100
Epoch 12/100
Epoch 13/100
Epoch 14/100
Epoch 15/100
Epoch 16/100
Epoch 17/100
Epoch 18/100
Epoch 19/100
Epoch 20/100
Epoch 21/100
Epoch 22/100
Epoch 23/100
Epoch 24/100
Epoch 25/100
Epoch 26/100
Epoch 27/100
```

```
Epoch 28/100
Epoch 29/100
Epoch 30/100
Epoch 31/100
Epoch 32/100
Epoch 33/100
Epoch 34/100
Epoch 35/100
Epoch 36/100
Epoch 37/100
Epoch 38/100
Epoch 39/100
Epoch 40/100
Epoch 41/100
Epoch 42/100
Epoch 43/100
Epoch 44/100
Epoch 45/100
Epoch 46/100
Epoch 47/100
Epoch 48/100
Epoch 49/100
Epoch 50/100
Epoch 51/100
```

```
Epoch 52/100
Epoch 53/100
Epoch 54/100
Epoch 55/100
Epoch 56/100
Epoch 57/100
Epoch 58/100
Epoch 59/100
Epoch 60/100
Epoch 61/100
Epoch 62/100
Epoch 63/100
Epoch 64/100
Epoch 65/100
Epoch 66/100
Epoch 67/100
Epoch 68/100
Epoch 69/100
Epoch 70/100
Epoch 71/100
Epoch 72/100
Epoch 73/100
Epoch 74/100
Epoch 75/100
```

```
Epoch 76/100
Epoch 77/100
Epoch 78/100
Epoch 79/100
Epoch 80/100
Epoch 81/100
Epoch 82/100
Epoch 83/100
Epoch 84/100
Epoch 85/100
Epoch 86/100
Epoch 87/100
Epoch 88/100
Epoch 89/100
Epoch 90/100
Epoch 91/100
Epoch 92/100
Epoch 93/100
Epoch 94/100
Epoch 95/100
Epoch 96/100
Epoch 97/100
Epoch 98/100
Epoch 99/100
```

```
Epoch 100/100
Test loss: 3.8888094425201416
Test accuracy: 0.5333333373069763
In [33]: [sum(num_up), sum(num_down), sum(num_no)]
Out[33]: [385, 385, 429]
In [42]: np.shape(x_train), np.shape(x_test), np.shape(y_train), np.shape(y_test)
Out[42]: ((1079, 156, 156), (120, 156, 156), (1079,), (120,))
  RNN
In [0]: # DATA FEED IN AND PRE-PROCESSING -- RNN
       import numpy as np
       import cv2
      height = 389
       # weekly, daily, 4H, 1H, 30M, 15M
      num_up = [6, 40, 97, 67, 123, 52]
      num_down = [6, 40, 108, 62, 122, 47]
      num_co = [84, 345, 0, 0, 0, 0]
      timeframe = ['Weekly', 'Daily', 'FourHour', 'OneHour', 'ThirtyMin', 'FifteenMin']
      TF = ['_weekly', '', '_4H', '_1H', '_30m', '_15m']
      numbers = sum(num_up) + sum(num_down) + sum(num_co) #num_up + num_down + num_co #40+97
      fresize = 0.4
      height = int(height*fresize)+1
      batch_size = 128
      num_classes = 3
       # input image dimensions
      img_rows, img_cols = height, height
      x_data = np.zeros((numbers, height, height))
      y_data = np.zeros(numbers)
      count = 0
      for i in range(len(num_up)):
        # up trend
        for j in range(num_up[i]):
          if i == 1 and j == 0:# Daily
             path = timeframe[i] + '/UpTrend/XAUUSD'+ TF[i] + '_Up' + '%04d'% j + '.PNG'
          else:
```

```
path = timeframe[i] + '/UpTrend/XAUUSD'+ TF[i] + '_Up' + '%04d'% j + '.png'
  img = cv2.imread(path,0)
  if i < 2: # Weekly, Daily</pre>
      img = img[50:439, 1136-389:1136].astype('float32')
  else:
      img = img[50:439, 1178-389:1178].astype('float32')
  img = img/255
  img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
  x_data[count,:,:] = img
  y_data[count] = y_data[count]
  count += 1
# down trend
for j in range(num_down[i]):
  if i == 1 and j == 0:# Daily
      path = timeframe[i] + '/DownTrend/XAUUSD'+ TF[i] + '_Down' + '%04d'% j + '.PNG
  else:
      path = timeframe[i] + '/DownTrend/XAUUSD'+ TF[i] + '_Down' + '%04d'% j + '.png
  img = cv2.imread(path,0)
  if i < 2: # Weekly, Daily</pre>
      img = img[50:439, 1136-389:1136].astype('float32')
  else:
      img = img[50:439, 1178-389:1178].astype('float32')
  img = img/255
  img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
  x_data[count,:,:] = img
  y_{data[count]} = 1
  count += 1
# correction
for j in range(num_co[i]):
 path = timeframe[i] + '/Correction/XAUUSD'+ TF[i] + '_Correction' + '%04d'% j + '.;
  img = cv2.imread(path,0)
  if i < 2: # Weekly, Daily</pre>
      img = img[50:439, 1136-389:1136].astype('float32')
  else:
      img = img[50:439, 1178-389:1178].astype('float32')
  img = img/255
  img = cv2.resize(img, (0,0), fx=fresize, fy=fresize)
```

```
x_data[count,:,:] = img
            y_data[count] = 2
            count += 1
        # SHUFFLE TRAINING AND TESTING DATA
        from sklearn import model_selection
        import keras
        x_train, x_test, y_train, y_test = model_selection.train_test_split(x_data, y_data, te
        y_train = keras.utils.to_categorical(y_train, num_classes)
        y_test = keras.utils.to_categorical(y_test, num_classes)
In [0]: import tensorflow as tf
        import os
        from tensorflow.python.ops import rnn, rnn_cell
In [7]: # LSTM
        learning_rate = 0.001
        training_steps = 10000
        batch_size = 128
        display_step = 200
        test_step = 1000
        nInput = height
        nSteps = height
        nHidden = 128
        nClasses = 3
        result_dir = './results_LSTM/'
        x = tf.placeholder('float', [None, nSteps, nInput])
        y = tf.placeholder('float', [None, nClasses])
        weights = {
            'out': tf.Variable(tf.random_normal([nHidden, nClasses]))
        }
        biases = {
            'out': tf.Variable(tf.random_normal([nClasses]))
        }
        def RNN(x, weights, biases):
            x = tf.transpose(x, [1, 0, 2])
            x = tf.reshape(x, [-1, nInput])
            x = tf.split(x, nSteps, 0)
            lstm_cell = tf.nn.rnn_cell.LSTMCell(nHidden, forget_bias=1.0)#, reuse=True)
```

```
outputs, states = rnn.static_rnn(lstm_cell, x, dtype=tf.float32)
    return tf.matmul(outputs[-1], weights['out']) + biases['out']
def unfoldRNN(x):
    return tf.unstack(x, nSteps, 1)
pred = RNN(x, weights, biases)
prediction = tf.nn.softmax(pred)
# Define loss and optimizer
cost = tf.reduce_mean(tf.nn.softmax_cross_entropy_with_logits(logits=pred, labels=y))
optimizer = tf.train.GradientDescentOptimizer(learning_rate=learning_rate).minimize(coa
# Evaluate model (with test logits, for dropout to be disabled)
correctPred = tf.equal(tf.argmax(prediction, 1), tf.argmax(y, 1))
accuracy = tf.reduce_mean(tf.cast(correctPred, tf.float32))
loss_summary = tf.summary.scalar("loss", cost)
accuracy_summary = tf.summary.scalar("accuracy", accuracy)
test_accuracy_summary = tf.summary.scalar("test_accuracy", accuracy)
# Initialize the variables (i.e. assign their default value)
init = tf.initialize_all_variables()
# Start training
with tf.Session() as sess:
    saver = tf.train.Saver()
    summary_writer = tf.summary.FileWriter(result_dir, sess.graph)
    sess.run(init)
    for step in range(1, training_steps + 1):
        shuffles_train = list(range(len(x_train)))
        np.random.shuffle(shuffles_train)
        batchX = x_train[shuffles_train[:batch_size],:,:]
        batchY = y_train[shuffles_train[:batch_size]]
        sess.run(optimizer, feed_dict={x: batchX, y: batchY})
        if step % display_step == 0 or step == 1:
            # Calculate batch loss and accuracy
            loss, acc, loss_summ, accuracy_summ = sess.run([cost, accuracy, loss_summa:
                                                            feed_dict={x: batchX,
                                                                       y: batchY})
            summary_writer.add_summary(loss_summ, step)
            summary_writer.add_summary(accuracy_summ, step)
```

```
print("Training Step " + str(step) + ", Minibatch Loss= " +
                          "{:.6f}".format(loss) + ", Training Accuracy= " +
                          "{:.5f}".format(acc))
                if step % test_step == 0 or step == 1:
                    shuffles_test = list(range(len(x_test)))
                    np.random.shuffle(shuffles_test)
                    loss, acc, loss_summ, test_accuracy_summ = sess.run([cost, accuracy, loss_
                                                                        feed_dict={
                                                                             x: (x_test[shuffle:
                                                                             y: y_test[shuffles
                    summary_writer.add_summary(test_accuracy_summ, step)
                    checkpoint_file = os.path.join(result_dir, 'checkpoint')
                    saver.save(sess, checkpoint_file, global_step=step)
                    summary_writer.flush()
                    print("Test Step " + str(step) + ", Minibatch Loss= " +
                          "{:.6f}".format(loss) + ", Testing Accuracy= " +
                          "{:.5f}".format(acc))
           print("Optimization Finished!")
            testData = x_test[:,:,:]
            testLabel = y_test[:]
            print("Testing Accuracy:", sess.run(accuracy, feed_dict={x: testData, y: testLabel
WARNING:tensorflow:From <ipython-input-7-dd99a244cfa7>:45: softmax_cross_entropy_with_logits (
Instructions for updating:
Future major versions of TensorFlow will allow gradients to flow
into the labels input on backprop by default.
See `tf.nn.softmax_cross_entropy_with_logits_v2`.
WARNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/tensorflow/python/util/tf_shoule
Instructions for updating:
Use `tf.global_variables_initializer` instead.
Training Step 1, Minibatch Loss= 1.136090, Training Accuracy= 0.39062
Test Step 1, Minibatch Loss= 1.198355, Testing Accuracy= 0.30000
Training Step 200, Minibatch Loss= 1.023054, Training Accuracy= 0.59375
Training Step 400, Minibatch Loss= 0.958115, Training Accuracy= 0.57031
Training Step 600, Minibatch Loss= 0.873392, Training Accuracy= 0.64844
Training Step 800, Minibatch Loss= 0.889890, Training Accuracy= 0.61719
Training Step 1000, Minibatch Loss= 0.851353, Training Accuracy= 0.61719
Test Step 1000, Minibatch Loss= 0.838344, Testing Accuracy= 0.64167
Training Step 1200, Minibatch Loss= 0.885591, Training Accuracy= 0.53125
```

summary_writer.flush()

```
Training Step 1400, Minibatch Loss= 0.880929, Training Accuracy= 0.58594
Training Step 1600, Minibatch Loss= 0.850149, Training Accuracy= 0.61719
Training Step 1800, Minibatch Loss= 0.807798, Training Accuracy= 0.62500
Training Step 2000, Minibatch Loss= 0.810977, Training Accuracy= 0.67188
Test Step 2000, Minibatch Loss= 0.780578, Testing Accuracy= 0.61667
Training Step 2200, Minibatch Loss= 0.809776, Training Accuracy= 0.64062
Training Step 2400, Minibatch Loss= 0.796908, Training Accuracy= 0.64062
Training Step 2600, Minibatch Loss= 0.793176, Training Accuracy= 0.62500
Training Step 2800, Minibatch Loss= 0.799109, Training Accuracy= 0.55469
Training Step 3000, Minibatch Loss= 0.799601, Training Accuracy= 0.62500
Test Step 3000, Minibatch Loss= 0.757349, Testing Accuracy= 0.64167
Training Step 3200, Minibatch Loss= 0.809814, Training Accuracy= 0.60156
Training Step 3400, Minibatch Loss= 0.805528, Training Accuracy= 0.59375
Training Step 3600, Minibatch Loss= 0.784021, Training Accuracy= 0.59375
Training Step 3800, Minibatch Loss= 0.823637, Training Accuracy= 0.59375
Training Step 4000, Minibatch Loss= 0.674243, Training Accuracy= 0.69531
Test Step 4000, Minibatch Loss= 0.784947, Testing Accuracy= 0.56667
Training Step 4200, Minibatch Loss= 0.791027, Training Accuracy= 0.62500
Training Step 4400, Minibatch Loss= 0.801137, Training Accuracy= 0.60938
Training Step 4600, Minibatch Loss= 0.766801, Training Accuracy= 0.60938
Training Step 4800, Minibatch Loss= 0.774743, Training Accuracy= 0.58594
Training Step 5000, Minibatch Loss= 0.797688, Training Accuracy= 0.57812
Test Step 5000, Minibatch Loss= 0.734200, Testing Accuracy= 0.63333
Training Step 5200, Minibatch Loss= 0.832948, Training Accuracy= 0.59375
Training Step 5400, Minibatch Loss= 0.842136, Training Accuracy= 0.53906
Training Step 5600, Minibatch Loss= 0.776487, Training Accuracy= 0.61719
Training Step 5800, Minibatch Loss= 0.764684, Training Accuracy= 0.67188
Training Step 6000, Minibatch Loss= 0.731066, Training Accuracy= 0.67969
Test Step 6000, Minibatch Loss= 0.794630, Testing Accuracy= 0.58333
Training Step 6200, Minibatch Loss= 0.749039, Training Accuracy= 0.60156
Training Step 6400, Minibatch Loss= 0.704722, Training Accuracy= 0.71094
Training Step 6600, Minibatch Loss= 0.763979, Training Accuracy= 0.60938
Training Step 6800, Minibatch Loss= 0.735037, Training Accuracy= 0.64062
Training Step 7000, Minibatch Loss= 0.719457, Training Accuracy= 0.65625
Test Step 7000, Minibatch Loss= 0.651994, Testing Accuracy= 0.75000
Training Step 7200, Minibatch Loss= 0.759959, Training Accuracy= 0.60938
Training Step 7400, Minibatch Loss= 0.789176, Training Accuracy= 0.57031
Training Step 7600, Minibatch Loss= 0.811686, Training Accuracy= 0.56250
Training Step 7800, Minibatch Loss= 0.736548, Training Accuracy= 0.64844
Training Step 8000, Minibatch Loss= 0.795470, Training Accuracy= 0.57812
Test Step 8000, Minibatch Loss= 0.736963, Testing Accuracy= 0.64167
Training Step 8200, Minibatch Loss= 0.714448, Training Accuracy= 0.62500
Training Step 8400, Minibatch Loss= 0.770266, Training Accuracy= 0.60156
Training Step 8600, Minibatch Loss= 0.655017, Training Accuracy= 0.72656
Training Step 8800, Minibatch Loss= 0.672425, Training Accuracy= 0.72656
Training Step 9000, Minibatch Loss= 0.717358, Training Accuracy= 0.69531
Test Step 9000, Minibatch Loss= 0.731063, Testing Accuracy= 0.60000
Training Step 9200, Minibatch Loss= 0.777558, Training Accuracy= 0.66406
```

```
Training Step 9400, Minibatch Loss= 0.819457, Training Accuracy= 0.63281
Training Step 9600, Minibatch Loss= 0.786526, Training Accuracy= 0.57812
Training Step 9800, Minibatch Loss= 0.751578, Training Accuracy= 0.65625
Training Step 10000, Minibatch Loss= 0.679598, Training Accuracy= 0.71094
Test Step 10000, Minibatch Loss= 0.720752, Testing Accuracy= 0.62500
Optimization Finished!
Testing Accuracy: 0.625
In [5]: import numpy as np
       np.shape(batchX)
Out[5]: (128, 156, 156)
In [8]: # GRU
        learning_rate = 0.001
        training_steps = 10000
        batch_size = 128
        display_step = 200
        test_step = 1000
       nInput = height
       nSteps = height
       nHidden = 128
        nClasses = 3
       result_dir = './results_GRU/'
       x = tf.placeholder('float', [None, nSteps, nInput])
        y = tf.placeholder('float', [None, nClasses])
        weights = {
            'out': tf.Variable(tf.random_normal([nHidden, nClasses]))
        }
       biases = {
            'out': tf.Variable(tf.random_normal([nClasses]))
        }
        def RNN(x, weights, biases):
           x = tf.transpose(x, [1, 0, 2])
           x = tf.reshape(x, [-1, nInput])
            x = tf.split(x, nSteps, 0)
            gru_cell = rnn_cell.GRUCell(nHidden)
            outputs, states = rnn.static_rnn(gru_cell, x, dtype=tf.float32)
            return tf.matmul(outputs[-1], weights['out']) + biases['out']
```

```
def unfoldRNN(x):
    return tf.unstack(x, nSteps, 1)
pred = RNN(x, weights, biases)
prediction = tf.nn.softmax(pred)
# Define loss and optimizer
cost = tf.reduce_mean(tf.nn.softmax_cross_entropy_with_logits(logits=pred, labels=y))
optimizer = tf.train.GradientDescentOptimizer(learning_rate=learning_rate).minimize(coa
# Evaluate model (with test logits, for dropout to be disabled)
correctPred = tf.equal(tf.argmax(prediction, 1), tf.argmax(y, 1))
accuracy = tf.reduce_mean(tf.cast(correctPred, tf.float32))
loss_summary = tf.summary.scalar("loss", cost)
accuracy_summary = tf.summary.scalar("accuracy", accuracy)
test_accuracy_summary = tf.summary.scalar("test_accuracy", accuracy)
# Initialize the variables (i.e. assign their default value)
init = tf.initialize_all_variables()
# Start training
with tf.Session() as sess:
    saver = tf.train.Saver()
    summary_writer = tf.summary.FileWriter(result_dir, sess.graph)
    sess.run(init)
    for step in range(1, training_steps + 1):
        shuffles_train = list(range(len(x_train)))
        np.random.shuffle(shuffles_train)
        batchX = x_train[shuffles_train[:batch_size],:,:]
        batchY = y_train[shuffles_train[:batch_size]]
        sess.run(optimizer, feed_dict={x: batchX, y: batchY})
        if step % display_step == 0 or step == 1:
            # Calculate batch loss and accuracy
            loss, acc, loss_summ, accuracy_summ = sess.run([cost, accuracy, loss_summa:
                                                            feed_dict={x: batchX,
                                                                       y: batchY})
            summary_writer.add_summary(loss_summ, step)
            summary_writer.add_summary(accuracy_summ, step)
            summary_writer.flush()
```

```
"{:.5f}".format(acc))
                if step % test step == 0 or step == 1:
                    shuffles_test = list(range(len(x_test)))
                    np.random.shuffle(shuffles test)
                    loss, acc, loss_summ, test_accuracy_summ = sess.run([cost, accuracy, loss_
                                                                        feed dict={
                                                                            x: (x_test[shuffle
                                                                            y: y_test[shuffles
                    summary_writer.add_summary(test_accuracy_summ, step)
                    checkpoint_file = os.path.join(result_dir, 'checkpoint')
                    saver.save(sess, checkpoint_file, global_step=step)
                    summary_writer.flush()
                    print("Test Step " + str(step) + ", Minibatch Loss= " +
                          "{:.6f}".format(loss) + ", Testing Accuracy= " +
                          "{:.5f}".format(acc))
           print("Optimization Finished!")
            testData = x_test[:,:,:]
            testLabel = y test[:]
           print("Testing Accuracy:", sess.run(accuracy, feed_dict={x: testData, y: testLabel
Training Step 1, Minibatch Loss= 1.570676, Training Accuracy= 0.36719
Test Step 1, Minibatch Loss= 1.579638, Testing Accuracy= 0.32500
Training Step 200, Minibatch Loss= 1.003041, Training Accuracy= 0.56250
Training Step 400, Minibatch Loss= 0.940247, Training Accuracy= 0.40625
Training Step 600, Minibatch Loss= 0.906239, Training Accuracy= 0.53125
Training Step 800, Minibatch Loss= 0.858382, Training Accuracy= 0.54688
Training Step 1000, Minibatch Loss= 0.835003, Training Accuracy= 0.64844
Test Step 1000, Minibatch Loss= 0.856358, Testing Accuracy= 0.56667
Training Step 1200, Minibatch Loss= 0.823104, Training Accuracy= 0.63281
Training Step 1400, Minibatch Loss= 0.820316, Training Accuracy= 0.59375
Training Step 1600, Minibatch Loss= 0.857112, Training Accuracy= 0.48438
Training Step 1800, Minibatch Loss= 0.811211, Training Accuracy= 0.58594
Training Step 2000, Minibatch Loss= 0.778678, Training Accuracy= 0.59375
Test Step 2000, Minibatch Loss= 0.765318, Testing Accuracy= 0.57500
Training Step 2200, Minibatch Loss= 0.767689, Training Accuracy= 0.62500
Training Step 2400, Minibatch Loss= 0.766688, Training Accuracy= 0.66406
Training Step 2600, Minibatch Loss= 0.768704, Training Accuracy= 0.61719
Training Step 2800, Minibatch Loss= 0.744701, Training Accuracy= 0.63281
Training Step 3000, Minibatch Loss= 0.803975, Training Accuracy= 0.58594
Test Step 3000, Minibatch Loss= 0.770192, Testing Accuracy= 0.56667
Training Step 3200, Minibatch Loss= 0.795215, Training Accuracy= 0.60156
Training Step 3400, Minibatch Loss= 0.779612, Training Accuracy= 0.63281
```

```
Training Step 3600, Minibatch Loss= 0.798270, Training Accuracy= 0.64062
Training Step 3800, Minibatch Loss= 0.739011, Training Accuracy= 0.63281
Training Step 4000, Minibatch Loss= 0.780882, Training Accuracy= 0.63281
Test Step 4000, Minibatch Loss= 0.741624, Testing Accuracy= 0.58333
Training Step 4200, Minibatch Loss= 0.770610, Training Accuracy= 0.60938
Training Step 4400, Minibatch Loss= 0.751995, Training Accuracy= 0.63281
Training Step 4600, Minibatch Loss= 0.817887, Training Accuracy= 0.57812
Training Step 4800, Minibatch Loss= 0.655933, Training Accuracy= 0.74219
Training Step 5000, Minibatch Loss= 0.736431, Training Accuracy= 0.61719
Test Step 5000, Minibatch Loss= 0.711407, Testing Accuracy= 0.65833
Training Step 5200, Minibatch Loss= 0.721221, Training Accuracy= 0.64844
Training Step 5400, Minibatch Loss= 0.724449, Training Accuracy= 0.63281
Training Step 5600, Minibatch Loss= 0.749507, Training Accuracy= 0.70312
Training Step 5800, Minibatch Loss= 0.658545, Training Accuracy= 0.69531
Training Step 6000, Minibatch Loss= 0.792793, Training Accuracy= 0.67188
Test Step 6000, Minibatch Loss= 0.716316, Testing Accuracy= 0.63333
Training Step 6200, Minibatch Loss= 0.678683, Training Accuracy= 0.72656
Training Step 6400, Minibatch Loss= 0.766437, Training Accuracy= 0.60156
Training Step 6600, Minibatch Loss= 0.729647, Training Accuracy= 0.60938
Training Step 6800, Minibatch Loss= 0.809131, Training Accuracy= 0.57812
Training Step 7000, Minibatch Loss= 0.878530, Training Accuracy= 0.57812
Test Step 7000, Minibatch Loss= 0.800367, Testing Accuracy= 0.65000
Training Step 7200, Minibatch Loss= 0.689825, Training Accuracy= 0.63281
Training Step 7400, Minibatch Loss= 0.680479, Training Accuracy= 0.72656
Training Step 7600, Minibatch Loss= 0.757906, Training Accuracy= 0.68750
Training Step 7800, Minibatch Loss= 0.699099, Training Accuracy= 0.64844
Training Step 8000, Minibatch Loss= 0.670865, Training Accuracy= 0.67188
Test Step 8000, Minibatch Loss= 0.623632, Testing Accuracy= 0.70000
Training Step 8200, Minibatch Loss= 0.777869, Training Accuracy= 0.64062
Training Step 8400, Minibatch Loss= 0.699819, Training Accuracy= 0.66406
Training Step 8600, Minibatch Loss= 0.727844, Training Accuracy= 0.61719
Training Step 8800, Minibatch Loss= 0.634063, Training Accuracy= 0.69531
Training Step 9000, Minibatch Loss= 0.821023, Training Accuracy= 0.57812
Test Step 9000, Minibatch Loss= 0.811850, Testing Accuracy= 0.60000
Training Step 9200, Minibatch Loss= 0.574032, Training Accuracy= 0.71094
Training Step 9400, Minibatch Loss= 0.686132, Training Accuracy= 0.70312
Training Step 9600, Minibatch Loss= 0.935042, Training Accuracy= 0.62500
Training Step 9800, Minibatch Loss= 0.586413, Training Accuracy= 0.69531
Training Step 10000, Minibatch Loss= 0.948805, Training Accuracy= 0.63281
Test Step 10000, Minibatch Loss= 1.056789, Testing Accuracy= 0.56667
Optimization Finished!
```

In [9]: # RNN

learning_rate = 0.001

Testing Accuracy: 0.5666666

```
training_steps = 10000
batch_size = 128
display_step = 200
test_step = 1000
nInput = height
nSteps = height
nHidden = 128
nClasses = 3
result_dir = './results_RNN/'
x = tf.placeholder('float', [None, nSteps, nInput])
y = tf.placeholder('float', [None, nClasses])
weights = {
    'out': tf.Variable(tf.random_normal([nHidden, nClasses]))
biases = {
    'out': tf.Variable(tf.random_normal([nClasses]))
}
def RNN(x, weights, biases):
    x = tf.transpose(x, [1, 0, 2])
    x = tf.reshape(x, [-1, nInput])
    x = tf.split(x, nSteps, 0)
    RNN_cell = rnn_cell.BasicRNNCell(nHidden)
    outputs, states = rnn.static_rnn(RNN_cell, x, dtype=tf.float32)
    return tf.matmul(outputs[-1], weights['out']) + biases['out']
def unfoldRNN(x):
    return tf.unstack(x, nSteps, 1)
pred = RNN(x, weights, biases)
prediction = tf.nn.softmax(pred)
# Define loss and optimizer
cost = tf.reduce_mean(tf.nn.softmax_cross_entropy_with_logits(logits=pred, labels=y))
optimizer = tf.train.GradientDescentOptimizer(learning_rate=learning_rate).minimize(coa
# Evaluate model (with test logits, for dropout to be disabled)
correctPred = tf.equal(tf.argmax(prediction, 1), tf.argmax(y, 1))
accuracy = tf.reduce_mean(tf.cast(correctPred, tf.float32))
loss_summary = tf.summary.scalar("loss", cost)
```

```
accuracy_summary = tf.summary.scalar("accuracy", accuracy)
test_accuracy_summary = tf.summary.scalar("test_accuracy", accuracy)
# Initialize the variables (i.e. assign their default value)
init = tf.initialize all variables()
# Start training
with tf.Session() as sess:
    saver = tf.train.Saver()
    summary_writer = tf.summary.FileWriter(result_dir, sess.graph)
    sess.run(init)
    for step in range(1, training_steps + 1):
        shuffles_train = list(range(len(x_train)))
        np.random.shuffle(shuffles_train)
        batchX = x_train[shuffles_train[:batch_size],:,:]
        batchY = y_train[shuffles_train[:batch_size]]
        sess.run(optimizer, feed_dict={x: batchX, y: batchY})
        if step % display_step == 0 or step == 1:
            # Calculate batch loss and accuracy
            loss, acc, loss_summ, accuracy_summ = sess.run([cost, accuracy, loss_summa:
                                                           feed_dict={x: batchX,
                                                                       y: batchY})
            summary_writer.add_summary(loss_summ, step)
            summary_writer.add_summary(accuracy_summ, step)
            summary_writer.flush()
            print("Training Step " + str(step) + ", Minibatch Loss= " +
                  "{:.6f}".format(loss) + ", Training Accuracy= " +
                  "{:.5f}".format(acc))
        if step % test_step == 0 or step == 1:
            shuffles_test = list(range(len(x_test)))
            np.random.shuffle(shuffles test)
            loss, acc, loss_summ, test_accuracy_summ = sess.run([cost, accuracy, loss_
                                                                 feed_dict={
                                                                     x: (x_test[shuffle
                                                                     y: y_test[shuffles
            summary_writer.add_summary(test_accuracy_summ, step)
            checkpoint_file = os.path.join(result_dir, 'checkpoint')
            saver.save(sess, checkpoint_file, global_step=step)
            summary_writer.flush()
            print("Test Step " + str(step) + ", Minibatch Loss= " +
                  "{:.6f}".format(loss) + ", Testing Accuracy= " +
```

```
"{:.5f}".format(acc))
           print("Optimization Finished!")
            testData = x test[:,:,:]
            testLabel = y_test[:]
            print("Testing Accuracy:", sess.run(accuracy, feed_dict={x: testData, y: testLabel
WARNING:tensorflow:From <ipython-input-9-f3461eb02c6b>:33: BasicRNNCell.__init__ (from tensorf
Instructions for updating:
This class is equivalent as tf.keras.layers.SimpleRNNCell, and will be replaced by that in Tens
Training Step 1, Minibatch Loss= 2.844236, Training Accuracy= 0.31250
Test Step 1, Minibatch Loss= 2.542162, Testing Accuracy= 0.37500
Training Step 200, Minibatch Loss= 0.926534, Training Accuracy= 0.53906
Training Step 400, Minibatch Loss= 0.754711, Training Accuracy= 0.62500
Training Step 600, Minibatch Loss= 0.770410, Training Accuracy= 0.63281
Training Step 800, Minibatch Loss= 0.812265, Training Accuracy= 0.57031
Training Step 1000, Minibatch Loss= 0.784910, Training Accuracy= 0.63281
Test Step 1000, Minibatch Loss= 0.775242, Testing Accuracy= 0.56667
Training Step 1200, Minibatch Loss= 0.822709, Training Accuracy= 0.59375
Training Step 1400, Minibatch Loss= 0.793107, Training Accuracy= 0.58594
Training Step 1600, Minibatch Loss= 0.746164, Training Accuracy= 0.60938
Training Step 1800, Minibatch Loss= 0.814168, Training Accuracy= 0.57812
Training Step 2000, Minibatch Loss= 0.801162, Training Accuracy= 0.61719
Test Step 2000, Minibatch Loss= 0.727592, Testing Accuracy= 0.64167
Training Step 2200, Minibatch Loss= 0.769669, Training Accuracy= 0.62500
Training Step 2400, Minibatch Loss= 0.765233, Training Accuracy= 0.64062
Training Step 2600, Minibatch Loss= 0.702758, Training Accuracy= 0.62500
Training Step 2800, Minibatch Loss= 0.711439, Training Accuracy= 0.68750
Training Step 3000, Minibatch Loss= 0.778047, Training Accuracy= 0.60156
Test Step 3000, Minibatch Loss= 0.729107, Testing Accuracy= 0.55833
Training Step 3200, Minibatch Loss= 0.777623, Training Accuracy= 0.56250
Training Step 3400, Minibatch Loss= 0.736749, Training Accuracy= 0.60156
Training Step 3600, Minibatch Loss= 0.786515, Training Accuracy= 0.58594
Training Step 3800, Minibatch Loss= 0.768270, Training Accuracy= 0.59375
Training Step 4000, Minibatch Loss= 0.791910, Training Accuracy= 0.59375
Test Step 4000, Minibatch Loss= 0.743710, Testing Accuracy= 0.57500
Training Step 4200, Minibatch Loss= 0.801761, Training Accuracy= 0.60938
Training Step 4400, Minibatch Loss= 0.777831, Training Accuracy= 0.59375
Training Step 4600, Minibatch Loss= 0.710146, Training Accuracy= 0.64844
Training Step 4800, Minibatch Loss= 0.742600, Training Accuracy= 0.64844
Training Step 5000, Minibatch Loss= 0.724410, Training Accuracy= 0.65625
Test Step 5000, Minibatch Loss= 0.720775, Testing Accuracy= 0.64167
Training Step 5200, Minibatch Loss= 0.773124, Training Accuracy= 0.60938
Training Step 5400, Minibatch Loss= 0.827373, Training Accuracy= 0.57812
Training Step 5600, Minibatch Loss= 0.723832, Training Accuracy= 0.65625
Training Step 5800, Minibatch Loss= 0.731833, Training Accuracy= 0.60938
Training Step 6000, Minibatch Loss= 0.694421, Training Accuracy= 0.66406
```

Test Step 6000, Minibatch Loss= 0.724010, Testing Accuracy= 0.63333 Training Step 6200, Minibatch Loss= 0.752831, Training Accuracy= 0.61719 Training Step 6400, Minibatch Loss= 0.843409, Training Accuracy= 0.57812 Training Step 6600, Minibatch Loss= 0.809607, Training Accuracy= 0.56250 Training Step 6800, Minibatch Loss= 0.781896, Training Accuracy= 0.61719 Training Step 7000, Minibatch Loss= 0.728211, Training Accuracy= 0.67188 Test Step 7000, Minibatch Loss= 0.735121, Testing Accuracy= 0.56667 Training Step 7200, Minibatch Loss= 0.838670, Training Accuracy= 0.53906 Training Step 7400, Minibatch Loss= 0.772555, Training Accuracy= 0.57031 Training Step 7600, Minibatch Loss= 0.769768, Training Accuracy= 0.57031 Training Step 7800, Minibatch Loss= 0.815081, Training Accuracy= 0.54688 Training Step 8000, Minibatch Loss= 0.673418, Training Accuracy= 0.67188 Test Step 8000, Minibatch Loss= 0.739713, Testing Accuracy= 0.63333 Training Step 8200, Minibatch Loss= 0.699818, Training Accuracy= 0.66406 Training Step 8400, Minibatch Loss= 0.779752, Training Accuracy= 0.60938 Training Step 8600, Minibatch Loss= 0.730372, Training Accuracy= 0.64062 Training Step 8800, Minibatch Loss= 0.780510, Training Accuracy= 0.61719 Training Step 9000, Minibatch Loss= 0.718699, Training Accuracy= 0.62500 Test Step 9000, Minibatch Loss= 0.736560, Testing Accuracy= 0.57500 Training Step 9200, Minibatch Loss= 0.680613, Training Accuracy= 0.71094 Training Step 9400, Minibatch Loss= 0.787731, Training Accuracy= 0.60938 Training Step 9600, Minibatch Loss= 0.740950, Training Accuracy= 0.66406 Training Step 9800, Minibatch Loss= 0.796929, Training Accuracy= 0.59375 Training Step 10000, Minibatch Loss= 0.710793, Training Accuracy= 0.67188 Test Step 10000, Minibatch Loss= 0.723465, Testing Accuracy= 0.64167 Optimization Finished!

Testing Accuracy: 0.64166665