

## Self Driving Car

**Problem Definition** We are here building a minimal version of self driving car. Here, we have a front camera view. This will transfer input to the computer. Then Deep Learning algorithm in computer predicts the steering angle to avoid all sorts of collisions. Predicting steering angle can be thought of as a regression problem. We will feed images to Convolutional Neural Network and the label will be the steering angle in that image. Model will learn the steering angle from the as per the turns in the image and will finally predicts steering angle for unknown images.

In [ ]:

```
# Credits: https://github.com/SullyChen/Autopilot-TensorFlow
# Research paper: End to End Learning for Self-Driving Cars by Nvidia.
[https://arxiv.org/pdf/1604.07316.pdf]

# NVidia dataset: 72 hrs of video => 72*60*60*30 = 7,776,000 images
# Nvidia blog: https://devblogs.nvidia.com/deep-learning-self-driving-cars/

# Our Dataset: https://github.com/SullyChen/Autopilot-TensorFlow
[https://drive.google.com/file/d/0B-KJCaaF7elleG1RbzVPZWV4Tlk/view]
# Size: 25 minutes = 25*60*30 = 45,000 images ~ 2.3 GB

# If you want to try on a slightly large dataset: 70 minutes of data ~ 223GB
# Refer: https://medium.com/udacity/open-sourcing-223gb-of-mountain-view-driving-data-f6b5593fbfa5
# Format: Image, latitude, longitude, gear, brake, throttle, steering angles and speed

# Additional Installations:
# pip3 install h5py

# AWS: https://aws.amazon.com/blogs/machine-learning/get-started-with-deep-learning-using-the-aws-deep-learning-ami/

# Youtube:https://www.youtube.com/watch?v=qhUvQiKec2U
# Further reading and extensions: https://medium.com/udacity/teaching-a-machine-to-steer-a-car-d73217f2492c
# More data: https://medium.com/udacity/open-sourcing-223gb-of-mountain-view-driving-data-f6b5593fbfa5
```

In [3]:

```
import numpy as np
import pandas as pd
import os
import matplotlib.pyplot as plt
import seaborn as sns
import imageio
import scipy.misc

import cv2
import warnings
from tensorflow.core.protobuf import saver_pb2
from tensorflow.python.client import device_lib
from scipy import pi
```

```
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:526:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_qint8 = np.dtype [("qint8", np.int8, 1)])
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:527:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_quint8 = np.dtype [("quint8", np.uint8, 1)])
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:528:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_qint16 = np.dtype [("qint16", np.int16, 1)])
```

```
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:529:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_quint16 = np.dtype(["quint16", np.uint16, 1])
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:530:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    _np_qint32 = np.dtype(["qint32", np.int32, 1])
C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\dtypes.py:535:
FutureWarning: Passing (type, 1) or 'ltype' as a synonym of type is deprecated; in a future
version of numpy, it will be understood as (type, (1,)) / '(1,)type'.
    np_resource = np.dtype(["resource", np.ubyte, 1])
C:\ProgramData\Anaconda3\lib\site-packages\h5py\__init__.py:36: FutureWarning: Conversion of the s
econd argument of issubdtype from `float` to `np.floating` is deprecated. In future, it will be
treated as `np.float64 == np.dtype(float).type`.
    from ._conv import register_converters as _register_converters
```

In [4]:

```
from __future__ import division

import os
import numpy as np
import random

from scipy import pi
from itertools import islice
```

In [5]:

```
DATA_FOLDER = r"C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\driving_dataset"
DATA_FILE = os.path.join(DATA_FOLDER, r"C:\Users\Administrator\Downloads\Autopilot-TensorFlow-
master\data.txt")

x = []
y = []

train_batch_pointer = 0
test_batch_pointer = 0
```

In [9]:

```
with open(os.path.join(DATA_FOLDER, r"C:\Users\Administrator\Downloads\Autopilot-TensorFlow-
master\driving_dataset\data.txt")) as f:
    for line in f:
        image_name, angle = line.split()

        image_path = os.path.join(DATA_FOLDER, image_name)
        x.append(image_path)

        angle_radians = float(angle) * (pi / 180)    #converting angle into radians
        y.append(angle_radians)
y = np.array(y)
print(str(len(x))+" "+str(len(y)))
```

45406 45406

## Train\_Test split(80-20)

In [10]:

```
split_ratio = int(len(x) * 0.8)

train_x = x[:split_ratio]
train_y = y[:split_ratio]

test_x = x[split_ratio:]
test_y = y[split_ratio:]

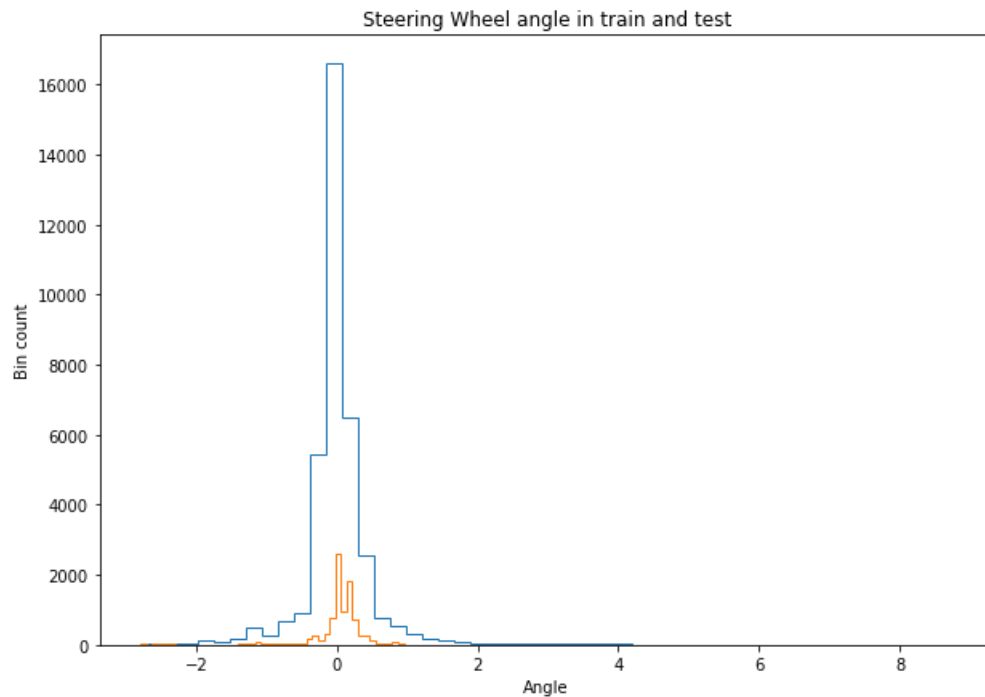
len(train_x), len(train_y), len(test_x), len(test_y)
```

Out[10]:

(36324, 36324, 9082, 9082)

In [11]:

```
fig = plt.figure(figsize = (10, 7))
plt.hist(train_y, bins = 50, histtype = "step")
plt.hist(test_y, bins = 50, histtype = "step")
plt.title("Steering Wheel angle in train and test")
plt.xlabel("Angle")
plt.ylabel("Bin count")
plt.show()
```



In [12]:

```
def loadTrainBatch(batch_size):
    global train_batch_pointer
    x_result = []
    y_result = []
    for i in range(batch_size):
        read_image = cv2.imread(train_x[(train_batch_pointer + i) % len(train_x)]) #here %
len(train_x) is used to make sure that
        # "train_batch_pointer + i" should not cross the number of train images. As soon as the
value of "train_batch_pointer" is
        # equal to number of train images then it will again start reading the train images from
the beginning means from 0th
        # index onwards.
        read_image_road = read_image[-150:] #here, we are taking only the lower part of the images
where there is a road in the
        # image. As, we are concern only with the curves of the road to predict angles so
therefore, we are discarding the upper
        # part of the image. Hence, here -"150" is equivalent to the last 150 matrix pixels of the
image.
        read_image_resize = cv2.resize(read_image_road, (200, 66)) #After, resizing, each image wil
l be of size (66, 200, 3).
        # now since we have kept only the last 150 matrices in the image so the size of our image i
s now (150, 455, 3).
        # Now 455/150 = 3.0303. Also 200/66 = 3.0303. Hence, here we are keeping the aspect ratio o
f images same.
        read_image_final = read_image_resize/255.0 #here, we are normalizing the images

        x_result.append(read_image_final) #finally appending the image pixel matrix

        y_result.append(train_y[(train_batch_pointer + i) % len(train_y)]) #appending corresponding
labels

    train_batch_pointer += batch_size
```

```
return x_result, y_result
```

In [13]:

```
def loadTestBatch(batch_size):
    global test_batch_pointer
    x_result = []
    y_result = []
    for i in range(batch_size):
        read_image = cv2.imread(test_x[(test_batch_pointer + i) % len(test_x)]) #here % len(test_x)
        is used to make sure that
        # "test_batch_pointer + i" should not cross the number of test images. As soon as the value
        of "test_batch_pointer" is
        # equal to number of test images then it will again start reading the test images from the
        beginning means from 0th
        # index onwards.
        read_image_road = read_image[-150:] #here, we are taking only the lower part of the images
        where there is a road in the
        # image. As, we are concern only with the curves of the road to predict angles so
        therefore, we are discarding the upper
        # part of the image. Hence, here "-150" is equivalent to the last 150 matrix pixels of the
        image.
        read_image_resize = cv2.resize(read_image_road, (200, 66)) #After, resizing, each image wil
        l be of size (66, 200, 3).
        # now since we have kept only the last 150 matrices in the image so the size of our image i
        s now (150, 455, 3).
        # Now 455/150 = 3.0303. Also 200/66 = 3.0303. Hence, here we are keeping the aspect ratio o
        f images same.
        read_image_final = read_image_resize/255.0 #here, we are normalizing the images

        x_result.append(read_image_final) #finally appending the image pixel matrix

        y_result.append(test_y[(test_batch_pointer + i) % len(test_y)]) #appending corresponding la
        bels

        test_batch_pointer += batch_size

    return x_result, y_result
```

In [14]:

```
def weightVariable(shape):
    initial = tf.truncated_normal(shape = shape, stddev = 0.1)
    return tf.Variable(initial)

def bias_variable(shape):
    initial = tf.constant(0.1, shape=shape)
    return tf.Variable(initial)

def convolution(previous_input, filter_input, strides):
    return tf.nn.conv2d(previous_input, filter_input, strides = [1, strides, strides, 1], padding =
"VALID")
```

In [15]:

```
import tensorflow as tf
x_input = tf.placeholder(tf.float32, shape = [None, 66, 200, 3], name = "Plc_1")
y_true = tf.placeholder(tf.float32, name = "Plc_2")

input_image = x_input
```

In [16]:

```
#Convolution Layers
#First convolution layer
W_Conv1 = weightVariable([5,5,3,24])
B_Conv1 = bias_variable([24])
Conv1 = tf.nn.relu(convolution(input_image, W_Conv1, 2) + B_Conv1)
#strides = 2
#Output size: 31*98*24

#Second convolution layer
```

```

#Second convolution layer
W_Conv2 = weightVariable([5,5,24,36])
B_Conv2 = bias_variable([36])
Conv2 = tf.nn.relu(convolution(Conv1, W_Conv2, 2) + B_Conv2)
#strides = 2
#Output size: 14*47*36

#Third convolution layer
W_Conv3 = weightVariable([5,5,36,48])
B_Conv3 = bias_variable([48])
Conv3 = tf.nn.relu(convolution(Conv2, W_Conv3, 2) + B_Conv3)
#strides = 2
#Output size: 5*22*48

#Fourth convolution layer
W_Conv4 = weightVariable([3,3,48,64])
B_Conv4 = bias_variable([64])
Conv4 = tf.nn.relu(convolution(Conv3, W_Conv4, 1) + B_Conv4)
#strides = 1
#Output size: 3*20*64

#Fifth convolution layer
W_Conv5 = weightVariable([3,3,64,64])
B_Conv5 = bias_variable([64])
Conv5 = tf.nn.relu(convolution(Conv4, W_Conv5, 1) + B_Conv5)
#strides = 1
#Output size: 1*18*64

#Fully-Connected Dense Layers
keep_prob = tf.placeholder(tf.float32)
#First FC-Dense
#Input = 1*18*64 = 1152
W_FC1 = weightVariable([1152, 1164])
B_FC1 = bias_variable([1164])
FC1_Flatten = tf.reshape(Conv5, [-1, 1152]) #here, -1 indicates 1. It means that the shape of FC1_Flatten will be 1*1152
Output_FC1 = tf.nn.relu(tf.matmul(FC1_Flatten, W_FC1) + B_FC1) #so, here shape of FC1_Flatten is 1*1152 and shape of W_FC1 will be 1152*1164. Therefore, there will be a matrix multiplication of matrices: (1*1152) * (1152*1164) = (1*1164).
Output_FC1_drop = tf.nn.dropout(Output_FC1, keep_prob)

#Second FC-Dense
#Input = 1*1164 = 1164
W_FC2 = weightVariable([1164, 100])
B_FC2 = bias_variable([100])
Output_FC2 = tf.nn.relu(tf.matmul(Output_FC1_drop, W_FC2) + B_FC2) #so, here shape of Output_FC1_drop is 1*1164 and shape of W_FC2 will be 1164*100. Therefore, there will be a matrix multiplication of matrices: (1*1164) * (1164*100) = (1*100).
Output_FC2_drop = tf.nn.dropout(Output_FC2, keep_prob)

#Third FC-Dense
#Input = 1*100 = 100
W_FC3 = weightVariable([100, 50])
B_FC3 = bias_variable([50])
Output_FC3 = tf.nn.relu(tf.matmul(Output_FC2_drop, W_FC3) + B_FC3) #so, here shape of Output_FC2_drop is 1*100 and shape of W_FC3 will be 100*50. Therefore, there will be a matrix multiplication of matrices: (1*100) * (100*50) = (1*50).
Output_FC3_drop = tf.nn.dropout(Output_FC3, keep_prob)

#Fourth FC-Dense
#Input = 1*50 = 50
W_FC4 = weightVariable([50, 10])
B_FC4 = bias_variable([10])
Output_FC4 = tf.nn.relu(tf.matmul(Output_FC3_drop, W_FC4) + B_FC4) #so, here shape of Output_FC3_drop is 1*50 and shape of W_FC4 will be 50*10. Therefore, there will be a matrix multiplication of matrices: (1*50) * (50*10) = (1*10).
Output_FC4_drop = tf.nn.dropout(Output_FC4, keep_prob)

#Final Output to one neuron with linear/identity function
#Input = 1*10 = 10
W_FC5 = weightVariable([10, 1])
B_FC5 = bias_variable([1])
y_predicted = tf.identity(tf.matmul(Output_FC4_drop, W_FC5) + B_FC5) #so, here shape of Output_FC4_drop is 1*10 and shape of W_FC5 will be 10*1. Therefore, there will be a matrix multiplication of matrices: (1*10) * (10*1) = (1*1).

```

```

y_predicted = tf.identity(tf.matmul(output_Fc4_drop, w_Fc5) + b_Fc5, #50, here shape of output_Fc4_drop is 1*10 and shape of
#W_Fc5 will be 10*1. Therefore, there will be a matrix multiplication of matrices: (1*10) * (10*1) = (1*1). Since, this is a
#regression problem so we have applied identity function in the end. We can also apply "atan" function here. If computational
#power is available then the model should be tested with both identity and atan functions. In the end, that function should be
#considered which gives better result.

```

```

WARNING:tensorflow:From C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\framework\op_def_library.py:263: colocate_with (from tensorflow.python.framework.ops) is deprecated and will be removed in a future version.
Instructions for updating:
Colocations handled automatically by placer.
WARNING:tensorflow:From <ipython-input-16-ca8b8458dcc4>:48: calling dropout (from tensorflow.python.ops.nn_ops) with keep_prob is deprecated and will be removed in a future version.
Instructions for updating:
Please use `rate` instead of `keep_prob`. Rate should be set to `rate = 1 - keep_prob`.

```

In [18]:

```

%%time
SAVEDIR = "../Saver/"
sess = tf.InteractiveSession()

L2NormConst = 0.001
train_vars = tf.trainable_variables() #it will return all the variables. Here, all the weights and biases are variables which
#are trainable.

loss = tf.reduce_mean(tf.square(tf.subtract(y_true, y_predicted))) + tf.add_n([tf.nn.l2_loss(w) for w in train_vars]) * L2NormConst
#since this is a regression problem so above loss is mean-squared-error loss
train_step = tf.train.AdamOptimizer(learning_rate = 10**-4).minimize(loss)
sess.run(tf.global_variables_initializer())

saver = tf.train.Saver()

epochs = 30
batch_size = 100
epoch_number, train_loss, test_loss, = [], [], []

for epoch in range(epochs):
    train_avg_loss = 0
    test_avg_loss = 0
    te_loss_old = 10000 #any big number can be given

    for i in range(int(len(x)/batch_size)):
        train_batch_x, train_batch_y = loadTrainBatch(batch_size)
        train_step.run(feed_dict = {x_input: train_batch_x, y_true: train_batch_y, keep_prob:
0.8})
        tr_loss = loss.eval(feed_dict = {x_input: train_batch_x, y_true: train_batch_y, keep_prob:
1.0})
        train_avg_loss += tr_loss / batch_size

        test_batch_x, test_batch_y = loadTestBatch(batch_size)
        te_loss_new = loss.eval(feed_dict = {x_input: test_batch_x, y_true: test_batch_y,
keep_prob: 1.0})
        test_avg_loss += te_loss_new / batch_size

        if te_loss_new < te_loss_old:
            print("Epoch: {}, Train_Loss: {}, Test_Loss: {}".format(epoch+1, tr_loss,
te_loss_new))
        else:
            print("Epoch: {}, Train_Loss: {}, Test_Loss: {}".format(epoch+1, tr_loss,
te_loss_new))
            te_loss_old = te_loss_new

        if (i+1) % batch_size == 0:
            if not os.path.exists(SAVEDIR):
                os.makedirs(SAVEDIR)
            save_path = os.path.join(SAVEDIR, r"C:\Users\Administrator\Downloads\Autopilot-
TensorFlow-master\save copy\model.ckpt")
            saver.save(sess = sess, save_path = save_path)

```

```
print("Model saved at location {} at epoch {}".format(save_path, epoch + 1))
```

```
epoch_number.append(epoch)
train_loss.append(train_avg_loss)
test_loss.append(test_avg_loss)
```

```
#creating dataframe and record all the losses and accuracies at each epoch
log_frame = pd.DataFrame(columns = ["Epoch", "Train Loss", "Test Loss"])
log_frame["Epoch"] = epoch_number
log_frame["Train Loss"] = train_loss
log_frame["Test Loss"] = test_loss
log_frame.to_csv(os.path.join(SAVEDIR, "log.csv"), index = False)
```

C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\client\session.py:1702: UserWarning:  
An interactive session is already active. This can cause out-of-memory errors in some cases. You must explicitly call `InteractiveSession.close()` to release resources held by the other session(s).

```
warnings.warn('An interactive session is already active. This can '
```

```
Epoch: 1, Train_Loss: 6.174876689910889, Test_Loss: 6.241774082183838 *
Epoch: 1, Train_Loss: 6.157304763793945, Test_Loss: 6.304219722747803
Epoch: 1, Train_Loss: 6.1491570472717285, Test_Loss: 6.162303447723389 *
Epoch: 1, Train_Loss: 6.142899990081787, Test_Loss: 6.161448955535889 *
Epoch: 1, Train_Loss: 6.137180805206299, Test_Loss: 6.1463704109191895 *
Epoch: 1, Train_Loss: 6.294179439544678, Test_Loss: 6.163755416870117
Epoch: 1, Train_Loss: 10.779863357543945, Test_Loss: 6.185640811920166
Epoch: 1, Train_Loss: 6.162837982177734, Test_Loss: 6.146432399749756 *
Epoch: 1, Train_Loss: 6.111608505249023, Test_Loss: 6.10966157913208 *
Epoch: 1, Train_Loss: 6.105567455291748, Test_Loss: 6.224362850189209
Epoch: 1, Train_Loss: 6.089389324188232, Test_Loss: 6.52421760559082
Epoch: 1, Train_Loss: 6.081638336181641, Test_Loss: 6.212978839874268 *
Epoch: 1, Train_Loss: 6.075056076049805, Test_Loss: 6.225851535797119
Epoch: 1, Train_Loss: 6.066782474517822, Test_Loss: 6.079155921936035 *
Epoch: 1, Train_Loss: 6.0595598220825195, Test_Loss: 6.069850444793701 *
Epoch: 1, Train_Loss: 6.052711486816406, Test_Loss: 6.060239315032959 *
Epoch: 1, Train_Loss: 6.123520374298096, Test_Loss: 6.056812763214111 *
Epoch: 1, Train_Loss: 6.130528926849365, Test_Loss: 6.093228816986084
Epoch: 1, Train_Loss: 6.126798629760742, Test_Loss: 11.202508926391602
Epoch: 1, Train_Loss: 6.081093788146973, Test_Loss: 6.212203025817871 *
Epoch: 1, Train_Loss: 6.019360065460205, Test_Loss: 6.03865385055542 *
Epoch: 1, Train_Loss: 6.1507463455200195, Test_Loss: 6.020252227783203 *
Epoch: 1, Train_Loss: 6.219310760498047, Test_Loss: 6.020896911621094
Epoch: 1, Train_Loss: 6.188976764678955, Test_Loss: 6.009989261627197 *
Epoch: 1, Train_Loss: 6.155519485473633, Test_Loss: 5.994265079498291 *
Epoch: 1, Train_Loss: 5.987919330596924, Test_Loss: 5.98420524597168 *
Epoch: 1, Train_Loss: 5.976434230804443, Test_Loss: 5.9773945808410645 *
Epoch: 1, Train_Loss: 5.969861030578613, Test_Loss: 5.972903728485107 *
Epoch: 1, Train_Loss: 5.96009635925293, Test_Loss: 5.968347549438477 *
Epoch: 1, Train_Loss: 5.955172061920166, Test_Loss: 5.963770866394043 *
Epoch: 1, Train_Loss: 5.946035861968994, Test_Loss: 5.953967094421387 *
Epoch: 1, Train_Loss: 5.941624164581299, Test_Loss: 5.958980560302734
Epoch: 1, Train_Loss: 5.936477184295654, Test_Loss: 5.943212509155273 *
Epoch: 1, Train_Loss: 5.92549991607666, Test_Loss: 5.931892395019531 *
Epoch: 1, Train_Loss: 5.921187877655029, Test_Loss: 5.919751167297363 *
Epoch: 1, Train_Loss: 6.047971248626709, Test_Loss: 5.917457580566406 *
Epoch: 1, Train_Loss: 6.048266887664795, Test_Loss: 5.907320976257324 *
Epoch: 1, Train_Loss: 6.056729316711426, Test_Loss: 5.898688316345215 *
Epoch: 1, Train_Loss: 5.9474334716796875, Test_Loss: 5.897494316101074 *
Epoch: 1, Train_Loss: 6.070281982421875, Test_Loss: 5.884561538696289 *
Epoch: 1, Train_Loss: 6.018045425415039, Test_Loss: 5.880129814147949 *
Epoch: 1, Train_Loss: 5.9718146324157715, Test_Loss: 5.875669479370117 *
Epoch: 1, Train_Loss: 6.019113063812256, Test_Loss: 5.866446018218994 *
Epoch: 1, Train_Loss: 6.197386264801025, Test_Loss: 5.858479022979736 *
Epoch: 1, Train_Loss: 5.8837666511535645, Test_Loss: 5.853524684906006 *
Epoch: 1, Train_Loss: 5.8670549392700195, Test_Loss: 5.8443603515625 *
Epoch: 1, Train_Loss: 6.378379821777344, Test_Loss: 5.838409423828125 *
Epoch: 1, Train_Loss: 6.736180305480957, Test_Loss: 5.839162826538086
Epoch: 1, Train_Loss: 5.838597297668457, Test_Loss: 5.880086898803711
Epoch: 1, Train_Loss: 5.844153881072998, Test_Loss: 7.253284931182861
Epoch: 1, Train_Loss: 5.843105316162109, Test_Loss: 10.07510757446289
Epoch: 1, Train_Loss: 5.820285320281982, Test_Loss: 5.811379432678223 *
Epoch: 1, Train_Loss: 5.795328140258789, Test_Loss: 5.792595386505127 *
Epoch: 1, Train_Loss: 5.873055683135986, Test_Loss: 5.815999507904053
Epoch: 1, Train_Loss: 5.956063270568848, Test_Loss: 5.8288679122924805
Epoch: 1, Train_Loss: 5.910877704620361, Test_Loss: 5.8208441734313965 *
Epoch: 1, Train Loss: 5.885688304901123, Test Loss: 5.785218715667725 *
```

Epoch: 1, Train\_Loss: 5.896143913269043, Test\_Loss: 5.892934322357178  
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Epoch: 1, Train\_Loss: 4.317059516906738, Test\_Loss: 4.31815767288208 \*  
Epoch: 1, Train\_Loss: 4.313508987426758, Test\_Loss: 4.315431118011475 \*  
Epoch: 1, Train\_Loss: 4.309749126434326, Test\_Loss: 4.310108661651611 \*  
Epoch: 1, Train\_Loss: 4.307361602783203, Test\_Loss: 4.309823036193848 \*  
Epoch: 1, Train\_Loss: 4.304012298583984, Test\_Loss: 4.304710865020752 \*  
Epoch: 1, Train\_Loss: 4.293975353240967, Test\_Loss: 4.3024797439575195 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 1, Train\_Loss: 4.289999008178711, Test\_Loss: 4.296886920928955 \*  
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Epoch: 1, Train\_Loss: 4.2784881591796875, Test\_Loss: 4.287895679473877 \*  
Epoch: 1, Train\_Loss: 4.294270038604736, Test\_Loss: 4.293925762176514  
Epoch: 1, Train\_Loss: 4.28192663192749, Test\_Loss: 4.286398410797119 \*  
Epoch: 1, Train\_Loss: 4.280460357666016, Test\_Loss: 4.271404266357422 \*  
Epoch: 1, Train\_Loss: 4.262235641479492, Test\_Loss: 4.261566638946533 \*  
Epoch: 1, Train\_Loss: 11.973539352416992, Test\_Loss: 4.260225296020508 \*  
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Epoch: 2, Train\_Loss: 2.7358078956604004, Test\_Loss: 2.5755205154418945 \*  
Epoch: 2, Train\_Loss: 2.6225812435150146, Test\_Loss: 2.5747439861297607 \*  
Epoch: 2, Train\_Loss: 2.568708658218384, Test\_Loss: 2.575774669647217  
Epoch: 2, Train\_Loss: 2.5700948238372803, Test\_Loss: 2.5736098289489746 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 2  
Epoch: 2, Train\_Loss: 2.5615994930267334, Test\_Loss: 2.5715627670288086 \*  
Epoch: 2, Train\_Loss: 2.559830904006958, Test\_Loss: 2.563776731491089 \*  
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Epoch: 2, Train\_Loss: 2.553529977798462, Test\_Loss: 2.572282075881958  
Epoch: 2, Train\_Loss: 2.5566585063934326, Test\_Loss: 2.5681540966033936 \*  
Epoch: 2, Train\_Loss: 2.5504941940307617, Test\_Loss: 2.5570902824401855 \*  
Epoch: 2, Train\_Loss: 2.5459413528442383, Test\_Loss: 2.548412561416626 \*  
Epoch: 2, Train\_Loss: 2.6089165210723877, Test\_Loss: 2.5472118854522705 \*  
Epoch: 2, Train\_Loss: 2.7032840251922607, Test\_Loss: 2.543815851211548 \*  
Epoch: 2, Train\_Loss: 2.6855921745300293, Test\_Loss: 2.5420777797698975 \*  
Epoch: 2, Train\_Loss: 2.62048602104187, Test\_Loss: 2.5414860248565674 \*  
Epoch: 2, Train\_Loss: 2.686169385910034, Test\_Loss: 2.534058094024658 \*  
Epoch: 2, Train\_Loss: 2.731217622756958, Test\_Loss: 2.5328328609466553 \*  
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Epoch: 2, Train\_Loss: 2.70847487449646, Test\_Loss: 2.5272154808044434 \*  
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Epoch: 2, Train\_Loss: 2.8159914016723633, Test\_Loss: 2.523303270339966 \*  
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Epoch: 2, Train\_Loss: 5.3230671882629395, Test\_Loss: 2.5160367488861084 \*  
Epoch: 2, Train\_Loss: 2.560262680053711, Test\_Loss: 2.559929847717285  
Epoch: 2, Train\_Loss: 2.5385565757751465, Test\_Loss: 2.5314433574676514 \*  
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Epoch: 2, Train\_Loss: 2.3410634994506836, Test\_Loss: 2.3062314987182617 \*  
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Epoch: 2, Train\_Loss: 2.324000835418701, Test\_Loss: 2.3021843433380127 \*  
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Epoch: 2, Train\_Loss: 2.294146776199341, Test\_Loss: 2.291599750518799 \*  
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Epoch: 7, Train\_Loss: 0.5702189803123474, Test\_Loss: 0.5450159907341003  
Epoch: 7, Train\_Loss: 0.5526490807533264, Test\_Loss: 0.5484845042228699  
Epoch: 7, Train\_Loss: 0.5741267800331116, Test\_Loss: 0.604799747467041  
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Epoch: 7, Train\_Loss: 0.5577525496482849, Test\_Loss: 5.0655598640441895  
Epoch: 7, Train\_Loss: 0.5608230233192444, Test\_Loss: 0.5485690832138062 \*  
Epoch: 7, Train\_Loss: 0.5781808495521545, Test\_Loss: 0.5418710112571716 \*  
Epoch: 7, Train\_Loss: 2.3115463256835938, Test\_Loss: 0.5837693214416504  
Epoch: 7, Train\_Loss: 4.2215704917907715, Test\_Loss: 0.5821247100830078 \*  
Epoch: 7, Train\_Loss: 0.5768129229545593, Test\_Loss: 0.5958285927772522  
Epoch: 7, Train\_Loss: 0.5561263561248779, Test\_Loss: 0.5537360906600952 \*  
Epoch: 7, Train\_Loss: 0.5606313943862915, Test\_Loss: 0.6537188291549683  
Epoch: 7, Train\_Loss: 0.724214494228363, Test\_Loss: 0.563281238079071 \*  
Epoch: 7, Train\_Loss: 0.5812445282936096, Test\_Loss: 0.545534074306488 \*  
Epoch: 7, Train\_Loss: 0.5493766069412231, Test\_Loss: 0.5767407417297363  
Epoch: 7, Train\_Loss: 0.5396491885185242, Test\_Loss: 0.5567442178726196 \*  
Epoch: 7, Train\_Loss: 0.6070809960365295, Test\_Loss: 0.5478965640068054 \*  
Epoch: 7, Train\_Loss: 0.5531160235404968, Test\_Loss: 0.5969763398170471  
Epoch: 7, Train\_Loss: 0.5563229322433472, Test\_Loss: 0.6254928708076477  
Epoch: 7, Train\_Loss: 1.05611252784729, Test\_Loss: 0.5990976095199585 \*  
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Epoch: 7, Train\_Loss: 1.4406986236572266, Test\_Loss: 0.5670087337493896 \*  
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Epoch: 7, Train\_Loss: 0.864760160446167, Test\_Loss: 0.5485921502113342 \*  
Epoch: 7, Train\_Loss: 2.8722167015075684, Test\_Loss: 0.5428088903427124 \*  
Epoch: 7, Train\_Loss: 1.2112786769866943, Test\_Loss: 0.5488592982292175  
Epoch: 7, Train\_Loss: 0.5751422643661499, Test\_Loss: 0.5482706427574158 \*  
Epoch: 7, Train\_Loss: 0.5520325899124146, Test\_Loss: 0.5461306571960449 \*  
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Epoch: 7, Train\_Loss: 1.779179334640503, Test\_Loss: 0.541304349899292 \*  
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Epoch: 7, Train\_Loss: 0.5460621118545532, Test\_Loss: 0.550653338432312  
Epoch: 7, Train\_Loss: 1.033900260925293, Test\_Loss: 0.5393068194389343 \*  
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Epoch: 7, Train\_Loss: 0.5591506958007812, Test\_Loss: 0.5545856952667236 \*  
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Epoch: 7, Train\_Loss: 0.6250122882282701, Test\_Loss: 0.8675246612820288

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Epoch: 7, Train\_Loss: 0.6890084743499756, Test\_Loss: 0.5426622629165649 \*  
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Epoch: 7, Train\_Loss: 0.5682005286216736, Test\_Loss: 0.6018784046173096 \*  
Epoch: 7, Train\_Loss: 0.6269320249557495, Test\_Loss: 0.534629225730896 \*  
Epoch: 7, Train\_Loss: 0.7892900705337524, Test\_Loss: 0.5342458486557007 \*  
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Epoch: 7, Train\_Loss: 0.7329878807067871, Test\_Loss: 0.63910311460495 \*  
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Epoch: 7, Train\_Loss: 0.917494535446167, Test\_Loss: 0.5492018461227417 \*  
Epoch: 7, Train\_Loss: 0.5656589269638062, Test\_Loss: 0.554499626159668  
Epoch: 7, Train\_Loss: 0.5839542150497437, Test\_Loss: 0.554131031036377 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 7, Train\_Loss: 0.6835134029388428, Test\_Loss: 0.5984402894973755  
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Epoch: 7, Train\_Loss: 0.5413463115692139, Test\_Loss: 0.5610285401344299 \*  
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Epoch: 1, Train\_Loss: 0.8151119598236084, Test\_Loss: 0.6634947061538696  
Epoch: 7, Train\_Loss: 1.50589919090271, Test\_Loss: 0.5607126951217651 \*  
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Epoch: 7, Train\_Loss: 0.5728192329406738, Test\_Loss: 0.5524848699569702 \*  
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Epoch: 7, Train\_Loss: 0.5550552606582642, Test\_Loss: 0.5592120289802551 \*  
Epoch: 7, Train\_Loss: 0.566831111907959, Test\_Loss: 0.530319094657898 \*  
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Epoch: 7, Train\_Loss: 0.555145263671875, Test\_Loss: 0.6531245112419128  
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Epoch: 8, Train\_Loss: 0.5306195616722107, Test\_Loss: 0.5802490711212158 \*  
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Epoch: 8, Train\_Loss: 0.6342198252677917, Test\_Loss: 0.5874706506729126  
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Epoch: 8, Train\_Loss: 0.523637592792511, Test\_Loss: 0.5092687606811523 \*

Epoch: 8, Train\_Loss: 0.5198410117230835, Test\_Loss: 0.533854961395263 /  
Epoch: 8, Train\_Loss: 0.5350016355514526, Test\_Loss: 0.5153999924659729 \*  
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Epoch: 8, Train\_Loss: 0.5245023369789124, Test\_Loss: 0.5122771263122559 \*  
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Epoch: 8, Train\_Loss: 0.5102775692939758, Test\_Loss: 0.5464057922363281 \*  
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Epoch: 8, Train\_Loss: 0.512416660785675, Test\_Loss: 0.6144472360610962 \*  
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Epoch: 8, Train\_Loss: 0.5128685235977173, Test\_Loss: 0.5121163129806519 \*  
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Epoch: 8, Train\_Loss: 0.5224503874778748, Test\_Loss: 0.505923867225647  
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Epoch: 8, Train\_Loss: 0.5651155710220337, Test\_Loss: 0.56118243932724  
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Epoch: 8, Train\_Loss: 0.5188301801681519, Test\_Loss: 0.8150230646133423 \*  
Epoch: 8, Train\_Loss: 0.5712546110153198, Test\_Loss: 0.603990912437439 \*  
Epoch: 8, Train\_Loss: 0.5731440782546997, Test\_Loss: 0.5083435773849487 \*  
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Epoch: 10, Train\_Loss: 0.4097534120082855, Test\_Loss: 0.5507377982139587  
Epoch: 10, Train\_Loss: 0.3892998993396759, Test\_Loss: 0.3917520046234131 \*  
Epoch: 10, Train\_Loss: 0.3833756446838379, Test\_Loss: 0.48702287673950195  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 10, Train\_Loss: 0.3883359432220459, Test\_Loss: 0.6656590700149536 \*  
Epoch: 10, Train\_Loss: 0.5394715070724487, Test\_Loss: 0.6399732828140259 \*  
Epoch: 10, Train\_Loss: 0.6357460021972656, Test\_Loss: 0.6153541207313538 \*  
Epoch: 10, Train\_Loss: 0.38121625781059265, Test\_Loss: 0.6217946410179138  
Epoch: 10, Train\_Loss: 0.43258509039878845, Test\_Loss: 0.7109887599945068  
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Epoch: 10, Train\_Loss: 0.5140040516853333, Test\_Loss: 0.4045253098011017 \*  
Epoch: 10, Train\_Loss: 0.6352907419204712, Test\_Loss: 0.3889431059360504 \*  
Epoch: 10, Train\_Loss: 0.5620837211608887, Test\_Loss: 0.4145483672618866  
Epoch: 10, Train\_Loss: 0.3957260847091675, Test\_Loss: 0.44907858967781067  
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Epoch: 10, Train\_Loss: 0.47142648696899414, Test\_Loss: 0.3830234110355377 \*  
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Epoch: 10, Train\_Loss: 0.4093136489391327, Test\_Loss: 0.40045425295829773 \*  
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Epoch: 10, Train\_Loss: 1.4831554889678955, Test\_Loss: 0.42182812094688416 \*  
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Epoch: 10, Train\_Loss: 0.6065640449523926, Test\_Loss: 0.6148449778556824 \*  
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Epoch: 10, Train\_Loss: 0.5462531447410583, Test\_Loss: 0.5451945662498474 \*  
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Epoch: 10, Train\_Loss: 0.47424858808517456, Test\_Loss: 1.73475980758667 \*  
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Epoch: 10, Train\_Loss: 0.3724428415298462, Test\_Loss: 0.3628927171230316 \*  
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Epoch: 10, Train\_Loss: 0.5750470161437988, Test\_Loss: 0.37572181224823  
Epoch: 10, Train\_Loss: 0.4960080683231354, Test\_Loss: 0.3630755543708801 \*  
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Epoch: 10, Train\_Loss: 0.3571896255016327, Test\_Loss: 0.3635527789592743 \*  
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Epoch: 10, Train\_Loss: 0.39247530698776245, Test\_Loss: 0.3599916398525238 \*  
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Epoch: 11, Train\_Loss: 0.43992626667022705, Test\_Loss: 1.661906123161316 \*  
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Epoch: 12, Train\_Loss: 0.3074795603752136, Test\_Loss: 0.3318570852279663  
Epoch: 12, Train\_Loss: 0.30700209736824036, Test\_Loss: 0.3282153904438019 \*  
Epoch: 12, Train\_Loss: 4.484567642211914, Test\_Loss: 0.32887396216392517  
Epoch: 12, Train\_Loss: 1.2167524099349976, Test\_Loss: 0.35491642355918884  
Epoch: 12, Train\_Loss: 0.30526798963546753, Test\_Loss: 0.3232114613056183 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 12, Train\_Loss: 0.30861032009124756, Test\_Loss: 0.40021848678588867  
Epoch: 12, Train\_Loss: 0.3049895763397217, Test\_Loss: 0.66905277967453  
Epoch: 12, Train\_Loss: 0.30489829182624817, Test\_Loss: 0.5030621290206909 \*  
Epoch: 12, Train\_Loss: 0.304555353164673, Test\_Loss: 0.3642614483833313 \*  
Epoch: 12, Train\_Loss: 0.3041256368160248, Test\_Loss: 0.31899118423461914 \*  
Epoch: 12, Train\_Loss: 0.30508846044540405, Test\_Loss: 0.31894341111183167 \*  
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Epoch: 12, Train\_Loss: 0.3658122718334198, Test\_Loss: 0.3189322352409363 \*  
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Epoch: 12, Train\_Loss: 0.3739868402481079, Test\_Loss: 5.846836566925049  
Epoch: 12, Train\_Loss: 0.31268516182899475, Test\_Loss: 0.4209446907043457 \*  
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Epoch: 12, Train\_Loss: 0.5210028290748596, Test\_Loss: 0.3104615807533264 \*  
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Epoch: 12, Train\_Loss: 0.49902695417404175, Test\_Loss: 0.3115239441394806 \*  
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Epoch: 12, Train\_Loss: 0.3031126856803894, Test\_Loss: 0.30629226565361023 \*  
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Epoch: 12, Train\_Loss: 0.31654202938079834, Test\_Loss: 0.32521820068359375  
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Epoch: 12, Train\_Loss: 0.4804755449295044, Test\_Loss: 0.3042892813682556 \*

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Epoch: 12, Train\_Loss: 0.3072088360786438, Test\_Loss: 0.31227385997772217 \*  
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Epoch: 12, Train\_Loss: 0.33054015040397644, Test\_Loss: 0.3349562883377075 \*  
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Epoch: 12, Train\_Loss: 0.29929888248443604, Test\_Loss: 0.3101222515106201 \*  
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Epoch: 12, Train\_Loss: 0.38836902379989624, Test\_Loss: 5.381364345550537  
Epoch: 12, Train\_Loss: 0.30021384358406067, Test\_Loss: 0.33919328451156616 \*

Epoch: 12, Train\_Loss: 0.35593149065971375, Test\_Loss: 0.3089471757411957 \*  
Epoch: 12, Train\_Loss: 0.3041314482688904, Test\_Loss: 0.30726340413093567 \*  
Epoch: 12, Train\_Loss: 0.31996268033981323, Test\_Loss: 0.3050503134727478 \*  
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Epoch: 12, Train\_Loss: 0.3194314241409302, Test\_Loss: 0.30547186732292175 \*  
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Epoch: 12, Train\_Loss: 0.3179429769515991, Test\_Loss: 0.3054160177707672 \*  
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Epoch: 12, Train\_Loss: 0.4024048447608948, Test\_Loss: 0.3138786554336548 \*  
Epoch: 12, Train\_Loss: 1.6078726053237915, Test\_Loss: 0.2963387072086334 \*  
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Epoch: 12, Train\_Loss: 0.8084259033203125, Test\_Loss: 0.2969174385070801 \*  
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Epoch: 12, Train\_Loss: 0.43889889121055603, Test\_Loss: 0.3147262632846832 \*  
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Epoch: 12, Train\_Loss: 0.4020650088787079, Test\_Loss: 0.32221800088882446 \*  
Epoch: 12, Train\_Loss: 0.36694735288619995, Test\_Loss: 0.3149316608905792 \*  
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Epoch: 12, Train\_Loss: 0.2968549132347107, Test\_Loss: 0.3783683180809021

Epoch: 12, Train\_Loss: 0.29518458247184753, Test\_Loss: 0.5630320310592651

Epoch: 12, Train\_Loss: 0.2994975447654724, Test\_Loss: 0.47738656401634216 \*

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Epoch: 12, Train\_Loss: 0.31667694449424744, Test\_Loss: 0.35459238290786743

Epoch: 12, Train\_Loss: 0.31964221596717834, Test\_Loss: 0.3330172300338745 \*

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Epoch: 12, Train\_Loss: 0.39887091517448425, Test\_Loss: 0.3095841705799103 \*

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Epoch: 12, Train\_Loss: 0.47832682728767395, Test\_Loss: 0.33086860179901123 \*

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Epoch: 13, Train\_Loss: 0.3414391577243805, Test\_Loss: 0.2862396538257599  
Epoch: 13, Train\_Loss: 0.2828056216239929, Test\_Loss: 0.2899706959724426  
Epoch: 13, Train\_Loss: 0.28969746828079224, Test\_Loss: 0.3073844015598297  
Epoch: 13, Train\_Loss: 0.30062010884284973, Test\_Loss: 0.30349281430244446 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 13, Train\_Loss: 0.3303411900997162, Test\_Loss: 0.28335458040237427 \*  
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Epoch: 13, Train\_Loss: 0.334163635969162, Test\_Loss: 0.6552921533584595  
Epoch: 13, Train\_Loss: 0.3028797507286072, Test\_Loss: 0.3972744643688202 \*  
Epoch: 13, Train\_Loss: 0.2827266752719879, Test\_Loss: 0.4123798906803131  
Epoch: 13, Train\_Loss: 0.30190178751945496, Test\_Loss: 0.29163822531700134 \*  
Epoch: 13, Train\_Loss: 0.27873051166534424, Test\_Loss: 0.2916860580444336  
Epoch: 13, Train\_Loss: 0.2828516662120819, Test\_Loss: 0.2915405035018921 \*  
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Epoch: 13, Train\_Loss: 0.3248023986816406, Test\_Loss: 0.2903470993041992 \*  
Epoch: 13, Train\_Loss: 0.29890528321266174, Test\_Loss: 0.2822040319442749 \*  
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Epoch: 13, Train\_Loss: 0.28962403535842896, Test\_Loss: 0.2878789007663727  
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Epoch: 13, Train\_Loss: 0.2804130017757416, Test\_Loss: 0.2785840332508087 \*  
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Epoch: 13, Train\_Loss: 0.2864023745059967, Test\_Loss: 0.2763559818267822 \*



Epoch: 13, Train\_Loss: 0.2804023745003997, Test\_Loss: 0.279333916207022 \*  
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Epoch: 13, Train\_Loss: 0.3742227225251343, Test\_Loss: 0.41642690110206604 \*  
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Epoch: 13, Train\_Loss: 0.27007446006000000, Test\_Loss: 0.28110375404358 \*

Epoch: 13, Train\_Loss: 0.27907446026802063, Test\_Loss: 0.2911037504673004 \*  
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Epoch: 13, Train\_Loss: 0.2677113115787506, Test\_Loss: 0.46273624897003174  
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Epoch: 13, Train\_Loss: 0.27003127336502075, Test\_Loss: 0.4957711100578308 \*  
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Epoch: 14, Train\_Loss: 0.38306713104248047, Test\_Loss: 0.30052056908607483 \*  
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Epoch: 15, Train\_Loss: 0.3202465772628784, Test\_Loss: 0.29522505402565 \*  
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Epoch: 15, Train\_Loss: 4.891523838043213, Test\_Loss: 0.4861195683479309  
Epoch: 15, Train\_Loss: 0.5845139026641846, Test\_Loss: 0.43494370579719543 \*  
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Epoch: 15, Train\_Loss: 0.2538561224937439, Test\_Loss: 0.2997276782989502 \*  
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Epoch: 15, Train\_Loss: 0.2561017870903015, Test\_Loss: 0.2390095293521881  
Epoch: 15, Train\_Loss: 0.22996293008327484, Test\_Loss: 0.2340601235628128 \*  
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Epoch: 15, Train\_Loss: 0.3375358581542969, Test\_Loss: 0.3085024058818817 \*  
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Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 16, Train\_Loss: 0.26018714904785156, Test\_Loss: 0.2733340859413147 \*  
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Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 17, Train\_Loss: 0.20893321931362152, Test\_Loss: 0.22500276565551758 \*  
Epoch: 17, Train\_Loss: 0.21123667061328888, Test\_Loss: 0.2737431526184082  
Epoch: 17, Train\_Loss: 0.2094450443983078, Test\_Loss: 0.5801372528076172  
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Epoch: 17, Train\_Loss: 0.25533178448677063, Test\_Loss: 0.574663519859314 \*  
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Epoch: 17, Train\_Loss: 0.21472163498401642, Test\_Loss: 0.26555168628692627  
Epoch: 17, Train\_Loss: 0.23424728214740753, Test\_Loss: 0.25454771518707275 \*  
Epoch: 17, Train\_Loss: 0.27639514207839966, Test\_Loss: 0.321512907743454  
Epoch: 17, Train\_Loss: 0.22557437419891357, Test\_Loss: 0.2627711892127991 \*  
Epoch: 17, Train\_Loss: 0.23264382779598236, Test\_Loss: 0.42095786333084106  
Epoch: 17, Train\_Loss: 0.2718234062194824, Test\_Loss: 0.3206273317337036 \*  
Epoch: 17, Train\_Loss: 0.3509577512741089, Test\_Loss: 0.37330901622772217  
Epoch: 17, Train\_Loss: 0.3182857036590576, Test\_Loss: 0.279973566532135 \*  
Epoch: 17, Train\_Loss: 0.26898473501205444, Test\_Loss: 0.27823397517204285 \*  
Epoch: 17, Train\_Loss: 0.2047135978937149, Test\_Loss: 0.315132200717926  
Epoch: 17, Train\_Loss: 0.2684568762779236, Test\_Loss: 0.26163655519485474 \*  
Epoch: 17, Train\_Loss: 0.24187009036540985, Test\_Loss: 0.24160891771316528 \*  
Epoch: 17, Train\_Loss: 0.6988310813903809, Test\_Loss: 0.362873375415802  
Epoch: 17, Train\_Loss: 0.37090182304382324, Test\_Loss: 1.3482104539871216  
Epoch: 17, Train\_Loss: 0.28877776861190796, Test\_Loss: 5.733364582061768  
Epoch: 17, Train\_Loss: 0.23234957456588745, Test\_Loss: 0.24282483756542206 \*  
Epoch: 17, Train\_Loss: 0.22423428297042847, Test\_Loss: 0.20471081137657166 \*  
Epoch: 17, Train\_Loss: 0.2542550265789032, Test\_Loss: 0.22520489990711212  
Epoch: 17, Train\_Loss: 0.23178038001060486, Test\_Loss: 0.20920124650001526 \*  
Epoch: 17, Train\_Loss: 0.22782650589942932, Test\_Loss: 0.21814273297786713  
Epoch: 17, Train\_Loss: 0.22067739069461823, Test\_Loss: 0.2321278601884842  
Epoch: 17, Train\_Loss: 0.22321060299873352, Test\_Loss: 0.33990123867988586  
Epoch: 17, Train\_Loss: 0.318145751953125, Test\_Loss: 0.2314291000366211 \*  
Epoch: 17, Train\_Loss: 5.2629265785217285, Test\_Loss: 0.2098149210214615 \*  
Epoch: 17, Train\_Loss: 0.21472130715847015, Test\_Loss: 0.24787867069244385  
Epoch: 17, Train\_Loss: 0.21773961186408997, Test\_Loss: 0.21307845413684845 \*  
Epoch: 17, Train\_Loss: 0.22940999269485474, Test\_Loss: 0.21766754984855652  
Epoch: 17, Train\_Loss: 0.2113860547542572, Test\_Loss: 0.24383889138698578  
Epoch: 17, Train\_Loss: 0.20627301931381226, Test\_Loss: 0.23397862911224365 \*  
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Epoch: 17, Train\_Loss: 0.21104100346565247, Test\_Loss: 0.33559486269950867  
Epoch: 17, Train\_Loss: 0.21817836165428162, Test\_Loss: 0.237770676612854 \*  
Epoch: 17, Train\_Loss: 0.21829836070537567, Test\_Loss: 0.22442549467086792 \*  
Epoch: 17, Train\_Loss: 0.22479160130023956, Test\_Loss: 0.20394426584243774 \*  
Epoch: 17, Train\_Loss: 0.20843417942523956, Test\_Loss: 0.20477667450904846  
Epoch: 17, Train\_Loss: 0.20557770133018494, Test\_Loss: 0.20372873544692993 \*  
Epoch: 17, Train\_Loss: 0.22204440832138062, Test\_Loss: 0.20382876694202423  
Epoch: 17, Train\_Loss: 0.20496922731399536, Test\_Loss: 0.20356890559196472 \*  
Epoch: 17, Train\_Loss: 0.20883722603321075, Test\_Loss: 0.20394527912139893  
Epoch: 17, Train\_Loss: 0.2335173338651657, Test\_Loss: 0.2058640867471695  
Epoch: 17, Train\_Loss: 0.2531510889530182, Test\_Loss: 0.20527133345603943 \*  
Epoch: 17, Train\_Loss: 0.21938301622867584, Test\_Loss: 0.20463980734348297 \*  
Epoch: 17, Train\_Loss: 0.2029275894165039, Test\_Loss: 0.22636912763118744

Epoch: 17, Train\_Loss: 0.20291438698768616, Test\_Loss: 0.20616018772125244 \*

Epoch: 17, Train\_Loss: 0.2672324478626251, Test\_Loss: 0.21685181558132172

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Epoch: 17, Train\_Loss: 0.23546817898750305, Test\_Loss: 0.5405575037002563

Epoch: 17, Train\_Loss: 0.23941238224506378, Test\_Loss: 0.31438764929771423 \*

Epoch: 17, Train\_Loss: 0.24803219735622406, Test\_Loss: 0.22084972262382507 \*

Epoch: 17, Train\_Loss: 0.25879108905792236, Test\_Loss: 0.22365006804466248

Epoch: 17, Train\_Loss: 0.24134664237499237, Test\_Loss: 0.22546601295471191

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Epoch: 17, Train\_Loss: 0.2303917407989502, Test\_Loss: 0.5100533366203308

Epoch: 17, Train\_Loss: 0.21427485346794128, Test\_Loss: 0.5933666229248047

Epoch: 17, Train\_Loss: 0.20340025424957275, Test\_Loss: 0.2587600648403168 \*

Epoch: 17, Train\_Loss: 0.20194955170154572, Test\_Loss: 0.2683936357498169

Epoch: 17, Train\_Loss: 0.2017533928155899, Test\_Loss: 0.20431731641292572 \*

Epoch: 17, Train\_Loss: 0.20197694003582, Test\_Loss: 0.20899678766727448

Epoch: 17, Train\_Loss: 0.28520143032073975, Test\_Loss: 0.21049892902374268

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Epoch: 17, Train\_Loss: 0.20930320024490356, Test\_Loss: 0.2128695696592331 \*

Epoch: 17, Train\_Loss: 0.2034696787595749, Test\_Loss: 0.33703213930130005

Epoch: 17, Train\_Loss: 0.20406489074230194, Test\_Loss: 0.6386284232139587

Epoch: 17, Train\_Loss: 0.20382024347782135, Test\_Loss: 0.46450871229171753 \*

Epoch: 17, Train\_Loss: 0.20279628038406372, Test\_Loss: 0.2835906744003296 \*

Epoch: 17, Train\_Loss: 0.20383955538272858, Test\_Loss: 0.25147587060928345 \*

Epoch: 17, Train\_Loss: 0.20408225059509277, Test\_Loss: 0.25245678424835205

Epoch: 17, Train\_Loss: 0.24565845727920532, Test\_Loss: 0.25652754306793213

Epoch: 17, Train\_Loss: 0.23496806621551514, Test\_Loss: 0.2580522894859314

Epoch: 17, Train\_Loss: 0.2665751576423645, Test\_Loss: 0.41798460483551025

Epoch: 17, Train\_Loss: 0.23555132746696472, Test\_Loss: 4.8842315673828125

Epoch: 17, Train\_Loss: 0.20856131613254547, Test\_Loss: 0.27463024854660034 \*

Epoch: 17, Train\_Loss: 0.3556879162788391, Test\_Loss: 0.21871694922447205 \*

Epoch: 17, Train\_Loss: 0.4544126093387604, Test\_Loss: 0.21361692249774933 \*

Epoch: 17, Train\_Loss: 0.44837772846221924, Test\_Loss: 0.21964304149150848

Epoch: 17, Train\_Loss: 0.4253300428390503, Test\_Loss: 0.21330076456069946 \*

Epoch: 17, Train\_Loss: 0.20365498960018158, Test\_Loss: 0.20905959606170654 \*

Epoch: 17, Train\_Loss: 0.20424139499664307, Test\_Loss: 0.20292384922504425 \*

Epoch: 17, Train\_Loss: 0.20482712984085083, Test\_Loss: 0.20421640574932098

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Epoch: 17, Train\_Loss: 0.2071838527917862, Test\_Loss: 0.22540146112442017

Epoch: 17, Train\_Loss: 0.2013135850429535, Test\_Loss: 0.2355404943227768

Epoch: 17, Train\_Loss: 0.20968037843704224, Test\_Loss: 0.2223244607448578 \*

Epoch: 17, Train\_Loss: 0.21918466687202454, Test\_Loss: 0.203942209482193 \*

Epoch: 17, Train\_Loss: 0.3859894275665283, Test\_Loss: 0.20243306457996368 \*

Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save copy\model.ckpt at epoch 17

Epoch: 17, Train\_Loss: 0.3851509094238281, Test\_Loss: 0.20215851068496704 \*

Epoch: 17, Train\_Loss: 0.4007423520088196, Test\_Loss: 0.20285747945308685

Epoch: 17, Train\_Loss: 0.23458148539066315, Test\_Loss: 0.2015579342842102 \*

Epoch: 17, Train\_Loss: 0.3312520980834961, Test\_Loss: 0.20268070697784424

Epoch: 17, Train\_Loss: 0.3093511760234833, Test\_Loss: 0.20166851580142975 \*

Epoch: 17, Train\_Loss: 0.26662737131118774, Test\_Loss: 0.2033548355102539

Epoch: 17, Train\_Loss: 0.3131232261657715, Test\_Loss: 0.20340971648693085

Epoch: 17, Train\_Loss: 0.4218789339065552, Test\_Loss: 0.2031579315662384 \*

Epoch: 17, Train\_Loss: 0.2731611728668213, Test\_Loss: 0.2024690955877304 \*

Epoch: 17, Train\_Loss: 0.21168364584445953, Test\_Loss: 0.20166413486003876 \*

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Epoch: 17, Train\_Loss: 1.0216245651245117, Test\_Loss: 0.20160628855228424

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Epoch: 17, Train\_Loss: 0.27219176292419434, Test\_Loss: 0.2583339214324951 \*

Epoch: 17, Train\_Loss: 0.2578977942466736, Test\_Loss: 0.25419604778289795 \*

Epoch: 17, Train\_Loss: 0.2514858841896057, Test\_Loss: 0.23293042182922363 \*

Epoch: 17, Train\_Loss: 0.22732116281986237, Test\_Loss: 0.278308629989624

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Epoch: 17, Train\_Loss: 0.20469173789024353, Test\_Loss: 0.20854046940803528 \*

Epoch: 17, Train\_Loss: 0.20702317357063293, Test\_Loss: 0.28694993257522583  
Epoch: 17, Train\_Loss: 0.2398955225944519, Test\_Loss: 0.3072197437286377  
Epoch: 17, Train\_Loss: 0.24394872784614563, Test\_Loss: 0.2549327611923218 \*  
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Epoch: 17, Train\_Loss: 0.2023131549358368, Test\_Loss: 0.22130778431892395 \*  
Epoch: 17, Train\_Loss: 0.21599334478378296, Test\_Loss: 0.22570495307445526  
Epoch: 17, Train\_Loss: 0.22011816501617432, Test\_Loss: 0.20345087349414825 \*  
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Epoch: 17, Train\_Loss: 0.22421953082084656, Test\_Loss: 0.27348875999450684  
Epoch: 17, Train\_Loss: 0.218572199344635, Test\_Loss: 0.22189128398895264 \*  
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Epoch: 17, Train\_Loss: 0.20995032787322998, Test\_Loss: 0.3340783715248108 \*  
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Epoch: 17, Train\_Loss: 0.20425410568714142, Test\_Loss: 0.22723637521266937  
Epoch: 17, Train\_Loss: 0.20459963381290436, Test\_Loss: 0.2170991450548172 \*  
Epoch: 17, Train\_Loss: 0.20121051371097565, Test\_Loss: 0.32424065470695496  
Epoch: 18, Train\_Loss: 0.2183748483657837, Test\_Loss: 0.2709861397743225 \*  
Epoch: 18, Train\_Loss: 0.25183969736099243, Test\_Loss: 0.5025204420089722  
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Epoch: 18, Train\_Loss: 0.2552590072154999, Test\_Loss: 0.2019318789243698 \*  
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Epoch: 18, Train\_Loss: 0.23723351955413818, Test\_Loss: 0.20667360723018646 \*  
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Epoch: 18, Train\_Loss: 0.20419827103614807, Test\_Loss: 0.21223726868629456 \*  
Epoch: 18, Train\_Loss: 0.21105289459228516, Test\_Loss: 0.21939271688461304  
Epoch: 18, Train\_Loss: 0.20841340720653534, Test\_Loss: 0.2030295729637146 \*  
Epoch: 18, Train\_Loss: 0.20505118370056152, Test\_Loss: 0.20007172226905823 \*  
Epoch: 18, Train\_Loss: 0.21028189361095428, Test\_Loss: 0.20105840265750885  
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Epoch: 18, Train\_Loss: 0.20028172433376312, Test\_Loss: 0.19971005618572235 \*  
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Epoch: 18, Train\_Loss: 0.21682368218898773, Test\_Loss: 0.19906960427761078 \*  
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Epoch: 18, Train\_Loss: 0.3966033160686493, Test\_Loss: 0.2875003218650818 \*  
Epoch: 18, Train\_Loss: 0.27433690428733826, Test\_Loss: 0.22835108637809753 \*  
Epoch: 18, Train\_Loss: 0.23985330760478973, Test\_Loss: 0.23899249732494354  
Epoch: 18, Train\_Loss: 0.2911655902862549, Test\_Loss: 0.22349725663661957 \*  
Epoch: 18, Train\_Loss: 0.3213171362876892, Test\_Loss: 0.3974399268627167  
Epoch: 18, Train\_Loss: 0.2702946066856384, Test\_Loss: 0.2397845983505249 \*  
Epoch: 18, Train\_Loss: 0.3008671998977661, Test\_Loss: 0.583519697189331  
Epoch: 18, Train\_Loss: 0.40643611550331116, Test\_Loss: 0.2901182174682617 \*  
Epoch: 18, Train\_Loss: 0.24684421718120575, Test\_Loss: 0.2676016688346863 \*  
Epoch: 18, Train\_Loss: 0.3192897439002991, Test\_Loss: 0.236354798078537 \*  
Epoch: 18, Train\_Loss: 0.3192980885505676, Test\_Loss: 0.2524584233760834  
Epoch: 18, Train\_Loss: 0.21387845277786255, Test\_Loss: 0.2858843207359314  
Epoch: 18, Train\_Loss: 0.19791024923324585, Test\_Loss: 0.2094360888004303 \*  
Epoch: 18, Train\_Loss: 0.20154042541980743, Test\_Loss: 0.2310679703950882  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 18, Train\_Loss: 0.203470379114151, Test\_Loss: 0.2071770578622818 \*  
Epoch: 18, Train\_Loss: 0.203754723072052, Test\_Loss: 0.3069402873516083  
Epoch: 18, Train\_Loss: 0.22199366986751556, Test\_Loss: 0.43020081520080566  
Epoch: 18, Train\_Loss: 0.2449290156364441, Test\_Loss: 0.4470283091068268  
Epoch: 18, Train\_Loss: 0.25030800700187683, Test\_Loss: 0.674330472946167  
Epoch: 18, Train\_Loss: 0.27066606283187866, Test\_Loss: 0.3754890561103821 \*  
Epoch: 18, Train\_Loss: 0.38747891783714294, Test\_Loss: 0.37207940220832825 \*  
Epoch: 18, Train\_Loss: 0.40013688802719116, Test\_Loss: 0.3672026991844177 \*  
Epoch: 18, Train\_Loss: 0.21535226702690125, Test\_Loss: 0.36853474378585815  
Epoch: 18, Train\_Loss: 0.2654891908168793, Test\_Loss: 0.5338574647903442  
Epoch: 18, Train\_Loss: 0.39126455783843994, Test\_Loss: 2.2252109050750732  
Epoch: 18, Train\_Loss: 0.31457510590553284, Test\_Loss: 3.1836743354797363  
Epoch: 18, Train\_Loss: 0.25608736276626587, Test\_Loss: 0.25650790333747864 \*  
Epoch: 18, Train\_Loss: 0.2515786290168762, Test\_Loss: 0.22106026113033295 \*  
Epoch: 18, Train\_Loss: 0.429996132850647, Test\_Loss: 0.22895139455795288  
Epoch: 18, Train\_Loss: 0.3215598464012146, Test\_Loss: 0.2095477133989334 \*  
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Epoch: 18, Train\_Loss: 0.2286360263824463, Test\_Loss: 0.3022371828556061  
Epoch: 18, Train\_Loss: 0.22841434180736542, Test\_Loss: 0.24032995104789734 \*  
Epoch: 18, Train\_Loss: 0.508938729763031, Test\_Loss: 0.20448091626167297 \*  
Epoch: 18, Train\_Loss: 0.7215862274169922, Test\_Loss: 0.21316932141780853  
Epoch: 18, Train\_Loss: 0.3290315270423889, Test\_Loss: 0.22621232271194458  
Epoch: 18, Train\_Loss: 0.24050994217395782, Test\_Loss: 0.3385975956916809  
Epoch: 18, Train\_Loss: 0.20367112755775452, Test\_Loss: 0.21585536003112793 \*  
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Epoch: 18, Train Loss: 0.4863952696323395, Test Loss: 0.2280724048614502

Epoch: 18, Train\_Loss: 0.25110924243927, Test\_Loss: 0.21258339285850525 \*  
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Epoch: 18, Train\_Loss: 0.2693502902984619, Test\_Loss: 0.2575889825820923 \*  
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Epoch: 18, Train\_Loss: 0.265921950340271, Test\_Loss: 0.23188689351081848  
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Epoch: 18, Train\_Loss: 0.4871840476989746, Test\_Loss: 0.3374098539352417  
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Epoch: 18, Train\_Loss: 0.5445905923843384, Test\_Loss: 1.185457468032837 \*  
Epoch: 18, Train\_Loss: 0.4937725067138672, Test\_Loss: 0.21452657878398895 \*  
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Epoch: 18, Train\_Loss: 0.21834439039230347, Test\_Loss: 0.24620720744132996 \*  
Epoch: 18, Train\_Loss: 0.41645348072052, Test\_Loss: 0.2001868486404419 \*  
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Epoch: 18, Train\_Loss: 0.7937318682670593, Test\_Loss: 0.2205549031496048 \*  
Epoch: 18, Train\_Loss: 0.44203442335128784, Test\_Loss: 0.3950943648815155  
Epoch: 18, Train\_Loss: 0.2449703812599182, Test\_Loss: 0.3204580545425415 \*  
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Epoch: 18, Train\_Loss: 0.28810060024261475, Test\_Loss: 0.44452211260795593  
Epoch: 18, Train\_Loss: 0.5138750672340393, Test\_Loss: 0.30425289273262024 \*  
Epoch: 18, Train\_Loss: 0.3614879846572876, Test\_Loss: 0.3768608868122101  
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Epoch: 18, Train\_Loss: 1.3933180570602417, Test\_Loss: 0.24090325832366943 \*  
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Epoch: 18, Train\_Loss: 0.4740152955055237, Test\_Loss: 0.2469831109046936 \*  
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Epoch: 18, Train\_Loss: 0.41851574182510376, Test\_Loss: 0.45257389545440674  
Epoch: 18, Train\_Loss: 5.105825424194336, Test\_Loss: 0.26695069670677185 \*  
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Epoch: 18, Train\_Loss: 0.26524582505226135, Test\_Loss: 0.3516903519630432 \*  
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Epoch: 18, Train\_Loss: 4.27171516418457, Test\_Loss: 0.8672203421592712  
Epoch: 18, Train\_Loss: 0.5704805850982666, Test\_Loss: 0.9002748727798462  
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Epoch: 18, Train\_Loss: 0.19683699309825897, Test\_Loss: 0.39012911915779114 \*  
Epoch: 18, Train\_Loss: 0.21832920610904694, Test\_Loss: 0.5088123083114624  
Epoch: 18, Train\_Loss: 0.24190093576908112, Test\_Loss: 0.36646342277526855 \*  
Epoch: 18, Train\_Loss: 0.19617855548858643, Test\_Loss: 0.7932274341583252  
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Epoch: 18, Train\_Loss: 0.1956598162651062, Test\_Loss: 0.9739831686019897 \*  
Epoch: 18, Train\_Loss: 0.20563434064388275, Test\_Loss: 0.3536688983440399 \*  
Epoch: 18, Train\_Loss: 0.26514679193496704, Test\_Loss: 0.22366666793823242 \*  
Epoch: 18, Train\_Loss: 0.20131458342075348, Test\_Loss: 0.22487108409404755  
Epoch: 18, Train\_Loss: 0.2464992105960846, Test\_Loss: 0.22049379348754883 \*  
Epoch: 18, Train\_Loss: 0.29901885986328125, Test\_Loss: 0.2043466418981552 \*  
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Epoch: 18. Train Loss: 0.21459276974201202. Test Loss: 0.20885901153087616

Epoch: 18, Train\_Loss: 0.2128756046295166, Test\_Loss: 5.478909492492676  
Epoch: 18, Train\_Loss: 0.23361387848854065, Test\_Loss: 3.193617820739746 \*  
Epoch: 18, Train\_Loss: 0.23808543384075165, Test\_Loss: 0.567366361618042 \*  
Epoch: 18, Train\_Loss: 0.19768528640270233, Test\_Loss: 0.35780954360961914 \*  
Epoch: 18, Train\_Loss: 0.1970895528793335, Test\_Loss: 0.43685656785964966  
Epoch: 18, Train\_Loss: 0.19520792365074158, Test\_Loss: 0.21059444546699524 \*  
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Epoch: 18, Train\_Loss: 0.19590461254119873, Test\_Loss: 0.8213069438934326  
Epoch: 18, Train\_Loss: 0.1965797394514084, Test\_Loss: 0.3733425736427307 \*  
Epoch: 18, Train\_Loss: 0.19550222158432007, Test\_Loss: 0.25178202986717224 \*  
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Epoch: 18, Train\_Loss: 0.3174374997615814, Test\_Loss: 0.6619749069213867 \*  
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Epoch: 18, Train\_Loss: 0.41843605041503906, Test\_Loss: 0.3960976004600525 \*  
Epoch: 18, Train\_Loss: 6.641793251037598, Test\_Loss: 0.2065054476261139 \*  
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Epoch: 18, Train\_Loss: 0.25756967067718506, Test\_Loss: 0.24309004843235016 \*  
Epoch: 18, Train\_Loss: 0.21709664165973663, Test\_Loss: 0.2938764691352844  
Epoch: 18, Train\_Loss: 0.2233329862356186, Test\_Loss: 0.2650304436683655 \*  
Epoch: 18, Train\_Loss: 0.22187693417072296, Test\_Loss: 0.3112965524196625  
Epoch: 18, Train\_Loss: 0.2899397611618042, Test\_Loss: 0.32682740688323975  
Epoch: 18, Train\_Loss: 0.3078942894935608, Test\_Loss: 0.24843688309192657 \*  
Epoch: 18, Train\_Loss: 0.2568897306919098, Test\_Loss: 0.2371262162923813 \*  
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Epoch: 18, Train\_Loss: 0.2264358550310135, Test\_Loss: 0.23570308089256287 \*  
Epoch: 18, Train\_Loss: 0.2056802213191986, Test\_Loss: 0.2121889740228653 \*  
Epoch: 18, Train\_Loss: 0.3947882056236267, Test\_Loss: 0.3268018960952759  
Epoch: 18, Train\_Loss: 0.20032724738121033, Test\_Loss: 0.2512495815753937 \*  
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Epoch: 18, Train\_Loss: 0.2326292246580124, Test\_Loss: 0.4267796277999878 \*  
Epoch: 18, Train\_Loss: 0.21179193258285522, Test\_Loss: 0.20147162675857544 \*  
Epoch: 18, Train\_Loss: 0.23299665749073029, Test\_Loss: 0.22292734682559967  
Epoch: 18, Train\_Loss: 0.22591230273246765, Test\_Loss: 0.20567719638347626 \*  
Epoch: 18, Train\_Loss: 0.23447328805923462, Test\_Loss: 0.2027125507593155 \*  
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Epoch: 18, Train\_Loss: 0.2554340362548828, Test\_Loss: 0.24803216755390167 \*  
Epoch: 18, Train\_Loss: 4.246257781982422, Test\_Loss: 0.1962873637676239 \*  
Epoch: 18, Train\_Loss: 0.6806091666221619, Test\_Loss: 0.21610087156295776  
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Epoch: 18, Train\_Loss: 0.23012515902519226, Test\_Loss: 0.20216946303844452 \*  
Epoch: 18, Train\_Loss: 0.19765087962150574, Test\_Loss: 0.2217913269996643  
Epoch: 18, Train\_Loss: 0.19487419724464417, Test\_Loss: 0.23174501955509186  
Epoch: 18, Train\_Loss: 0.20722739398479462, Test\_Loss: 0.2390211522579193  
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Epoch: 18, Train\_Loss: 0.19601808488368988, Test\_Loss: 0.23594270646572113  
Epoch: 18, Train\_Loss: 0.19458405673503876, Test\_Loss: 0.21888017654418945 \*  
Epoch: 18, Train\_Loss: 0.27345895767211914, Test\_Loss: 0.200965017080307 \*  
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Epoch: 18, Train\_Loss: 0.195359006524086, Test\_Loss: 0.20111876726150513 \*  
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Epoch: 18, Train\_Loss: 0.1965387761592865, Test\_Loss: 0.1998872607946396 \*  
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Epoch: 18, Train\_Loss: 0.20178981125354767, Test\_Loss: 0.41521042585372925 \*  
Epoch: 18, Train\_Loss: 0.1990591585636139, Test\_Loss: 0.7709358930587769  
Epoch: 18, Train\_Loss: 0.2023925930261612, Test\_Loss: 0.38757026195526123 \*  
Epoch: 18, Train\_Loss: 0.2150537669658661, Test\_Loss: 0.3684672713279724 \*  
Epoch: 18, Train\_Loss: 0.2130172699689865, Test\_Loss: 0.34415483474731445 \*  
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Epoch: 18, Train\_Loss: 0.4338606595993042, Test\_Loss: 0.19951847195625305 \*  
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Epoch: 18, Train\_Loss: 0.4053531289100647, Test\_Loss: 0.20431029796600342  
Epoch: 18, Train\_Loss: 0.2095373272895813, Test\_Loss: 0.19818612933158875 \*  
Epoch: 18, Train\_Loss: 0.19406983256340027, Test\_Loss: 0.19750376045703888 \*  
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Epoch: 18, Train\_Loss: 0.20048554241657257, Test\_Loss: 0.19615113735198975  
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Epoch: 18, Train\_Loss: 0.19725452363491058, Test\_Loss: 0.20622922480106354  
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Epoch: 18, Train\_Loss: 0.196559339761734, Test\_Loss: 0.21910612285137177  
Epoch: 18, Train\_Loss: 0.19568228721618652, Test\_Loss: 0.21010613441467285 \*  
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Epoch: 18, Train\_Loss: 0.30381059646606445, Test\_Loss: 0.19681280851364136 \*  
Epoch: 18, Train\_Loss: 0.3476060926914215, Test\_Loss: 0.19929146766662598  
Epoch: 18, Train\_Loss: 0.32779690623283386, Test\_Loss: 0.1985594779253006 \*  
Epoch: 18, Train\_Loss: 0.253693550825119, Test\_Loss: 0.19814595580101013 \*  
Epoch: 18, Train\_Loss: 0.36209046840667725, Test\_Loss: 0.20278659462928772  
Epoch: 18, Train\_Loss: 0.3668646216392517, Test\_Loss: 0.19784441590309143 \*  
Epoch: 18, Train\_Loss: 0.2205241322517395, Test\_Loss: 0.2004716992378235  
Epoch: 18, Train\_Loss: 0.3827191889286041, Test\_Loss: 0.20545481145381927  
Epoch: 18, Train\_Loss: 0.3120580017566681, Test\_Loss: 0.2015353888273239 \*  
Epoch: 18, Train\_Loss: 0.44402551651000977, Test\_Loss: 0.20256958901882172  
Epoch: 18, Train\_Loss: 0.21334891021251678, Test\_Loss: 0.19906949996948242 \*  
Epoch: 18, Train\_Loss: 1.4694007635116577, Test\_Loss: 0.19671228528022766 \*  
Epoch: 18, Train\_Loss: 2.1677308082580566, Test\_Loss: 0.19606107473373413 \*  
Epoch: 18, Train\_Loss: 0.23505237698554993, Test\_Loss: 0.19715581834316254  
Epoch: 18, Train\_Loss: 0.2419930398464203, Test\_Loss: 0.25423210859298706  
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Epoch: 18, Train\_Loss: 0.24444323778152466, Test\_Loss: 5.402463436126709  
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Epoch: 18, Train\_Loss: 0.20317481458187103, Test\_Loss: 0.1941622793674469 \*  
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Epoch: 18, Train\_Loss: 0.2681247591972351, Test\_Loss: 0.19774329662322998 \*  
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Epoch: 18, Train\_Loss: 0.2134094387292862, Test\_Loss: 0.22425763309001923 \*  
Epoch: 18, Train\_Loss: 0.2139587104320526, Test\_Loss: 0.198529914021492 \*  
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Epoch: 18, Train\_Loss: 0.2260180413722992, Test\_Loss: 0.21560919284820557 \*  
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Epoch: 18, Train\_Loss: 0.21373257040977478, Test\_Loss: 0.19931267201900482 \*

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Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 18, Train\_Loss: 0.20290815830230713, Test\_Loss: 0.19155646860599518 \*  
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Epoch: 19, Train\_Loss: 0.20393261313438416, Test\_Loss: 0.19084209203720093 \*  
Epoch: 19, Train\_Loss: 0.18789465725421906, Test\_Loss: 0.186030313372612 \*  
Epoch: 19, Train\_Loss: 0.18942762911319733, Test\_Loss: 0.18576839566230774 \*  
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Epoch: 19, Train\_Loss: 0.18578997254371643, Test\_Loss: 0.1897503137588501 \*  
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Epoch: 20, Train\_Loss: 0.20369993150234222, Test\_Loss: 0.20227190852165222 \*  
Epoch: 20, Train\_Loss: 0.20495375990867615, Test\_Loss: 0.47826287150382996  
Epoch: 20, Train\_Loss: 0.22616097331047058, Test\_Loss: 0.4180956482887268 \*  
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Epoch: 20, Train\_Loss: 0.2076001763343811, Test\_Loss: 0.20888979732990265 \*  
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Epoch: 20, Train\_Loss: 0.20863793790340424, Test\_Loss: 0.21738804876804352  
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Epoch: 20, Train\_Loss: 0.18047408759593964, Test\_Loss: 0.2242238074541092 \*  
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Epoch: 20, Train\_Loss: 0.18823710083961487, Test\_Loss: 0.22249820828437805  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 20, Train\_Loss: 0.18179847300052643, Test\_Loss: 0.4825216233730316 \*  
Epoch: 20, Train\_Loss: 0.1809065341949463, Test\_Loss: 0.23257440328598022 \*  
Epoch: 20, Train\_Loss: 0.18427687883377075, Test\_Loss: 0.23082762956619263 \*  
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Epoch: 20, Train\_Loss: 0.18288929760456085, Test\_Loss: 0.19140572845935822 \*  
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Epoch: 20, Train\_Loss: 0.18986357748508453, Test\_Loss: 0.1787087321281433 \*  
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Epoch: 20, Train\_Loss: 0.7007738351821899, Test\_Loss: 0.20784276723861694 \*  
Epoch: 20, Train\_Loss: 1.3129265308380127, Test\_Loss: 0.1824183613061905 \*  
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Epoch: 20, Train\_Loss: 0.2351493239402771, Test\_Loss: 0.18989360332489014 \*  
Epoch: 20, Train\_Loss: 0.20038902759552002, Test\_Loss: 0.23144903779029846  
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Epoch: 21, Train_Loss: 0.1806120127439499, Test_Loss: 0.17702870070934296 *
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Epoch: 21, Train_Loss: 0.2151428759098053, Test_Loss: 0.1948653608560562 *
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Epoch: 21, Train_Loss: 0.19448566436767578, Test_Loss: 0.4381489157676697 *
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Epoch: 22, Train\_Loss: 0.17464086413383484, Test\_Loss: 0.1730375438928604  
Epoch: 22, Train\_Loss: 0.5695580244064331, Test\_Loss: 0.17015434801578522 \*  
Epoch: 22, Train\_Loss: 0.6166729927062988, Test\_Loss: 0.17039507627487183  
Epoch: 22, Train\_Loss: 0.8011907935142517, Test\_Loss: 0.17101921141147614  
Epoch: 22, Train\_Loss: 0.1756429821252823, Test\_Loss: 0.17421945929527283  
Epoch: 22, Train\_Loss: 0.19045376777648926, Test\_Loss: 0.1731036752462387 \*  
Epoch: 22, Train\_Loss: 0.2958889305591583, Test\_Loss: 0.18746240437030792  
Epoch: 22, Train\_Loss: 0.3876563310623169, Test\_Loss: 0.17338040471076965 \*  
Epoch: 22, Train\_Loss: 0.18295186758041382, Test\_Loss: 0.19506612420082092  
Epoch: 22, Train\_Loss: 0.2330181896686554, Test\_Loss: 0.18963533639907837 \*  
Epoch: 22, Train\_Loss: 0.21406972408294678, Test\_Loss: 0.5577165484428406  
Epoch: 22, Train\_Loss: 0.22636118531227112, Test\_Loss: 0.4535828232765198 \*  
Epoch: 22, Train\_Loss: 0.3144986927509308, Test\_Loss: 0.316686749458313 \*  
Epoch: 22, Train\_Loss: 0.27703338861465454, Test\_Loss: 0.19549977779388428 \*  
Epoch: 22, Train\_Loss: 0.21616286039352417, Test\_Loss: 0.19492658972740173 \*  
Epoch: 22, Train\_Loss: 0.2241864949464798, Test\_Loss: 0.17298264801502228 \*  
Epoch: 22, Train\_Loss: 0.25474613904953003, Test\_Loss: 0.1954777091741562  
Epoch: 22, Train\_Loss: 0.26370710134506226, Test\_Loss: 0.2818242311477661  
Epoch: 22, Train\_Loss: 0.503284752368927, Test\_Loss: 0.31422826647758484  
Epoch: 22, Train\_Loss: 0.381198525428772, Test\_Loss: 0.25102493166923523 \*  
Epoch: 22, Train\_Loss: 0.2023548185825348, Test\_Loss: 0.26553982496261597  
Epoch: 22, Train\_Loss: 0.254798948764801, Test\_Loss: 0.18675819039344788 \*  
Epoch: 22, Train\_Loss: 0.2681012451648712, Test\_Loss: 0.17294301092624664 \*  
Epoch: 22, Train\_Loss: 0.19081176817417145, Test\_Loss: 0.17987611889839172  
Epoch: 22, Train\_Loss: 0.17536483705043793, Test\_Loss: 0.2317306250333786  
Epoch: 22, Train\_Loss: 0.17030489444732666, Test\_Loss: 0.17472825944423676 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 22, Train\_Loss: 0.18077322840690613, Test\_Loss: 0.19054295122623444  
Epoch: 22, Train\_Loss: 0.17265194654464722, Test\_Loss: 0.19154377281665802  
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Epoch: 22, Train\_Loss: 0.18647682666778564, Test\_Loss: 0.5205519199371338  
Epoch: 22, Train\_Loss: 0.18863849341869354, Test\_Loss: 0.49672749638557434 \*  
Epoch: 22, Train\_Loss: 0.18065303564071655, Test\_Loss: 0.5198216438293457  
Epoch: 22, Train\_Loss: 0.28723663091659546, Test\_Loss: 0.4637465476989746 \*  
Epoch: 22, Train\_Loss: 0.4570070505142212, Test\_Loss: 0.46257591247558594 \*  
Epoch: 22, Train\_Loss: 0.18301407992839813, Test\_Loss: 0.46859562397003174  
Epoch: 22, Train\_Loss: 0.22151681780815125, Test\_Loss: 0.5177919268608093  
Epoch: 22, Train\_Loss: 0.21515612304210663, Test\_Loss: 0.3657020330429077 \*  
Epoch: 22, Train\_Loss: 0.2036035656929016, Test\_Loss: 5.597131729125977  
Epoch: 22, Train\_Loss: 0.2721596360206604, Test\_Loss: 0.27088120579719543 \*  
Epoch: 22, Train\_Loss: 0.208892822265625, Test\_Loss: 0.19736003875732422 \*  
Epoch: 22, Train\_Loss: 0.39312949776649475, Test\_Loss: 0.20561429858207703  
Epoch: 22, Train\_Loss: 0.24085596203804016, Test\_Loss: 0.18233530223369598 \*  
Epoch: 22, Train\_Loss: 0.2839095890522003, Test\_Loss: 0.17770543694496155 \*  
Epoch: 22, Train\_Loss: 0.1925937831401825, Test\_Loss: 0.19190315902233124  
Epoch: 22, Train\_Loss: 0.1934611201286316, Test\_Loss: 0.2148578017950058  
Epoch: 22, Train\_Loss: 0.4480901062488556, Test\_Loss: 0.1792925000190735 \*  
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Epoch: 22, Train\_Loss: 0.491089403629303, Test\_Loss: 0.18413153290748596  
Epoch: 22, Train\_Loss: 0.24055002629756927, Test\_Loss: 0.2435053586959839  
Epoch: 22, Train\_Loss: 0.20397639274597168, Test\_Loss: 0.17685748636722565 \*  
Epoch: 22, Train\_Loss: 0.17007330073007301, Test\_Loss: 0.17007330073007301 \*

Epoch: 22, Train\_Loss: 0.17807318270206451, Test\_Loss: 0.17349712550640106 \*  
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Epoch: 22, Train\_Loss: 0.345004141330719, Test\_Loss: 0.17795000970363617 \*  
Epoch: 22, Train\_Loss: 0.17486391961574554, Test\_Loss: 0.1742873340845108 \*  
Epoch: 22, Train\_Loss: 0.34760454297065735, Test\_Loss: 0.20883587002754211  
Epoch: 22, Train\_Loss: 0.19967347383499146, Test\_Loss: 0.1888573169708252 \*  
Epoch: 22, Train\_Loss: 0.1897740513086319, Test\_Loss: 0.17103926837444305 \*  
Epoch: 22, Train\_Loss: 0.2196560502052307, Test\_Loss: 0.2037779688835144  
Epoch: 22, Train\_Loss: 0.3313232362270355, Test\_Loss: 0.17875079810619354 \*  
Epoch: 22, Train\_Loss: 0.20825642347335815, Test\_Loss: 0.180331289768219  
Epoch: 22, Train\_Loss: 0.25989317893981934, Test\_Loss: 0.18058423697948456  
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Epoch: 22, Train\_Loss: 0.25438129901885986, Test\_Loss: 0.1749851405620575 \*  
Epoch: 22, Train\_Loss: 0.2006060779094696, Test\_Loss: 0.1902533620595932  
Epoch: 22, Train\_Loss: 0.20013515651226044, Test\_Loss: 0.22326332330703735  
Epoch: 22, Train\_Loss: 0.18191216886043549, Test\_Loss: 0.18957994878292084 \*  
Epoch: 22, Train\_Loss: 0.20153817534446716, Test\_Loss: 0.17191654443740845 \*  
Epoch: 22, Train\_Loss: 0.3099702000617981, Test\_Loss: 0.27111756801605225  
Epoch: 22, Train\_Loss: 0.39802050590515137, Test\_Loss: 2.0513343811035156  
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Epoch: 22, Train\_Loss: 0.6923697590827942, Test\_Loss: 0.1927466094493866 \*  
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Epoch: 22, Train\_Loss: 0.3112126290798187, Test\_Loss: 0.20259404182434082  
Epoch: 22, Train\_Loss: 0.2483767569065094, Test\_Loss: 0.17264114320278168 \*  
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Epoch: 22, Train\_Loss: 0.17688043415546417, Test\_Loss: 0.20390954613685608  
Epoch: 22, Train\_Loss: 0.18687640130519867, Test\_Loss: 0.19844751060009003 \*  
Epoch: 22, Train\_Loss: 0.3221067190170288, Test\_Loss: 0.17743495106697083 \*  
Epoch: 22, Train\_Loss: 0.4163658022880554, Test\_Loss: 0.18939070403575897  
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Epoch: 22, Train\_Loss: 1.0575610399246216, Test\_Loss: 0.1953991800546646 \*  
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Epoch: 22, Train\_Loss: 0.26362550258636475, Test\_Loss: 0.19923169910907745 \*  
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Epoch: 22, Train\_Loss: 0.2915921211242676, Test\_Loss: 0.1803448349237442 \*  
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Epoch: 22, Train\_Loss: 0.6928337812423706, Test\_Loss: 0.2243110090494156 \*  
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Epoch: 22, Train\_Loss: 0.2338743507862091, Test\_Loss: 0.2094830423593521  
Epoch: 22, Train\_Loss: 0.42704910039901733, Test\_Loss: 0.1988784372806549 \*  
Epoch: 22, Train\_Loss: 0.30650660395622253, Test\_Loss: 0.1980934739112854 \*  
Epoch: 22, Train\_Loss: 0.3449752926826477, Test\_Loss: 0.1919250190258026 \*  
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Epoch: 22, Train\_Loss: 0.24510285258293152, Test\_Loss: 0.20483717322349548  
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Epoch: 22, Train\_Loss: 0.28497201204299927, Test\_Loss: 0.3656994104385376  
Epoch: 22, Train\_Loss: 15.991118431091309, Test\_Loss: 0.3076566457748413 \*  
Epoch: 22, Train\_Loss: 0.22175520658493042, Test\_Loss: 0.20005875825881958 \*  
Epoch: 22, Train\_Loss: 0.9240856766700745, Test\_Loss: 0.22405588626861572  
Epoch: 22, Train\_Loss: 1.0126103162765503, Test\_Loss: 0.21839392185211182 \*  
Epoch: 22, Train\_Loss: 0.18971791863441467, Test\_Loss: 0.19021984934806824 \*  
Epoch: 22, Train\_Loss: 0.46418678760528564, Test\_Loss: 0.27440106868743896  
Epoch: 22, Train\_Loss: 3.3796162605285645, Test\_Loss: 0.25030165910720825 \*  
Epoch: 22, Train\_Loss: 4.277068614959717, Test\_Loss: 0.4663659930229187  
Epoch: 22, Train\_Loss: 0.23454996943473816, Test\_Loss: 0.28363120555877686 \*  
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Epoch: 22, Train\_Loss: 4.7274088859558105, Test\_Loss: 0.18518665432929993 \*  
Epoch: 22, Train\_Loss: 0.46190255880355835, Test\_Loss: 0.1879355013370514  
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Epoch: 22, Train\_Loss: 0.17545846104621887, Test\_Loss: 0.19613106548786163 \*  
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Epoch: 22, Train\_Loss: 0.21938474476337433, Test\_Loss: 0.17549706995487213 \*  
Epoch: 22, Train\_Loss: 0.18707488477230072, Test\_Loss: 0.24041847884655  
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Epoch: 22, Train\_Loss: 0.16721516847610474, Test\_Loss: 0.35164427757263184 \*  
Epoch: 22, Train\_Loss: 0.18244096636772156, Test\_Loss: 0.19039727747440338 \*  
Epoch: 22, Train\_Loss: 0.1753843128681183, Test\_Loss: 0.1675894856452942 \*  
Epoch: 22, Train\_Loss: 0.2597197890281677, Test\_Loss: 0.16734032332897186 \*  
Epoch: 22, Train\_Loss: 0.18891699612140656, Test\_Loss: 0.16743160784244537  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save

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Epoch: 22, Train\_Loss: 0.21158713102340698, Test\_Loss: 0.21528172492980957  
Epoch: 22, Train\_Loss: 0.17772328853607178, Test\_Loss: 1.1923596858978271  
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Epoch: 22, Train\_Loss: 0.16928431391716003, Test\_Loss: 0.2873217463493347 \*  
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Epoch: 22, Train\_Loss: 0.17006489634513855, Test\_Loss: 0.5853555202484131  
Epoch: 22, Train\_Loss: 0.16660526394844055, Test\_Loss: 0.41011345386505127 \*  
Epoch: 22, Train\_Loss: 0.16677944362163544, Test\_Loss: 0.39116936922073364 \*  
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Epoch: 22, Train\_Loss: 0.16808371245861053, Test\_Loss: 0.8674755096435547 \*  
Epoch: 22, Train\_Loss: 0.16656504571437836, Test\_Loss: 0.5855712890625 \*  
Epoch: 22, Train\_Loss: 0.16658751666545868, Test\_Loss: 0.7971808314323425  
Epoch: 22, Train\_Loss: 0.17840802669525146, Test\_Loss: 0.6197947263717651 \*  
Epoch: 22, Train\_Loss: 0.19575761258602142, Test\_Loss: 1.3352668285369873  
Epoch: 22, Train\_Loss: 0.22714780271053314, Test\_Loss: 0.5683231949806213 \*  
Epoch: 22, Train\_Loss: 0.1942169964313507, Test\_Loss: 0.5607585906982422 \*  
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Epoch: 22, Train\_Loss: 4.1276397705078125, Test\_Loss: 0.20169587433338165 \*  
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Epoch: 22, Train\_Loss: 0.22837769985198975, Test\_Loss: 0.21026691794395447 \*  
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Epoch: 22, Train\_Loss: 0.29230403900146484, Test\_Loss: 0.2019372135400772 \*  
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Epoch: 22, Train\_Loss: 0.2797703742980957, Test\_Loss: 0.2199636697769165 \*  
Epoch: 22, Train\_Loss: 0.2631269097328186, Test\_Loss: 0.17681658267974854 \*  
Epoch: 22, Train\_Loss: 0.19729569554328918, Test\_Loss: 0.18367931246757507  
Epoch: 22, Train\_Loss: 0.18837317824363708, Test\_Loss: 0.20256465673446655  
Epoch: 22, Train\_Loss: 0.18865561485290527, Test\_Loss: 0.191483274102211 \*  
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Epoch: 22, Train\_Loss: 0.17059117555618286, Test\_Loss: 0.18479430675506592 \*  
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Epoch: 22, Train\_Loss: 2.511107921600342, Test\_Loss: 0.19187043607234955  
Epoch: 22, Train\_Loss: 0.17004084587097168, Test\_Loss: 0.18757592141628265 \*  
Epoch: 22, Train\_Loss: 0.17745999991893768, Test\_Loss: 0.18339300155639648 \*  
Epoch: 22, Train\_Loss: 0.177414208650589, Test\_Loss: 0.17484208941459656 \*  
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Epoch: 22, Train\_Loss: 0.19114075601100922, Test\_Loss: 0.22263368964195251 \*  
Epoch: 22, Train\_Loss: 0.17330841720104218, Test\_Loss: 0.19020521640777588 \*  
Epoch: 22, Train\_Loss: 0.1940656453371048, Test\_Loss: 0.19671958684921265  
Epoch: 22, Train\_Loss: 0.16846828162670135, Test\_Loss: 0.2658640146255493  
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Epoch: 22, Train\_Loss: 0.17400629818439484, Test\_Loss: 0.233527272939682 \*  
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Epoch: 22, Train\_Loss: 0.20979538559913635, Test\_Loss: 0.19958733022212982 \*  
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Epoch: 22, Train\_Loss: 0.2852862477302551, Test\_Loss: 0.408583402633667  
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Epoch: 22, Train\_Loss: 0.16617871820926666, Test\_Loss: 0.5662874579429626  
Epoch: 22, Train\_Loss: 0.16554266214370728, Test\_Loss: 0.2365543246269226 \*



Epoch: 22, Train\_Loss: 0.16564854979515076, Test\_Loss: 0.21973292529582977 \*  
Epoch: 22, Train\_Loss: 0.16572874784469604, Test\_Loss: 0.1768934279680252 \*  
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Epoch: 22, Train\_Loss: 0.17265212535858154, Test\_Loss: 0.16784432530403137 \*  
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Epoch: 22, Train\_Loss: 0.16690491139888763, Test\_Loss: 0.4681103825569153  
Epoch: 22, Train\_Loss: 0.16846244037151337, Test\_Loss: 0.4048110246658325 \*  
Epoch: 22, Train\_Loss: 0.1670515090227127, Test\_Loss: 0.19080618023872375 \*  
Epoch: 22, Train\_Loss: 0.16806000471115112, Test\_Loss: 0.18628700077533722 \*  
Epoch: 22, Train\_Loss: 0.18210503458976746, Test\_Loss: 0.1860792338848114 \*  
Epoch: 22, Train\_Loss: 0.20296357572078705, Test\_Loss: 0.18643979728221893  
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Epoch: 22, Train\_Loss: 0.21945807337760925, Test\_Loss: 1.9660993814468384  
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Epoch: 22, Train\_Loss: 0.40524160861968994, Test\_Loss: 0.17640547454357147 \*  
Epoch: 22, Train\_Loss: 0.3865739703178406, Test\_Loss: 0.17811115086078644  
Epoch: 22, Train\_Loss: 0.38961315155029297, Test\_Loss: 0.1790173500776291  
Epoch: 22, Train\_Loss: 0.23157291114330292, Test\_Loss: 0.16992220282554626 \*  
Epoch: 22, Train\_Loss: 0.16637873649597168, Test\_Loss: 0.18119823932647705  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 22  
Epoch: 22, Train\_Loss: 0.1659850776195526, Test\_Loss: 0.17212997376918793 \*  
Epoch: 22, Train\_Loss: 0.17177951335906982, Test\_Loss: 0.16700027883052826 \*  
Epoch: 22, Train\_Loss: 0.1717311441898346, Test\_Loss: 0.16983535885810852  
Epoch: 22, Train\_Loss: 0.18224094808101654, Test\_Loss: 0.16957131028175354 \*  
Epoch: 22, Train\_Loss: 0.18083234131336212, Test\_Loss: 0.19356036186218262  
Epoch: 22, Train\_Loss: 0.16522572934627533, Test\_Loss: 0.1816544085741043 \*  
Epoch: 22, Train\_Loss: 0.16716870665550232, Test\_Loss: 0.19270172715187073  
Epoch: 22, Train\_Loss: 0.18316525220870972, Test\_Loss: 0.17463567852973938 \*  
Epoch: 22, Train\_Loss: 0.25693750381469727, Test\_Loss: 0.167842835187912 \*  
Epoch: 22, Train\_Loss: 0.2886786162853241, Test\_Loss: 0.16867424547672272  
Epoch: 22, Train\_Loss: 0.20162752270698547, Test\_Loss: 0.17649970948696136  
Epoch: 22, Train\_Loss: 0.26901933550834656, Test\_Loss: 0.17771558463573456  
Epoch: 22, Train\_Loss: 0.2534635663032532, Test\_Loss: 0.16639576852321625 \*  
Epoch: 22, Train\_Loss: 0.276185542345047, Test\_Loss: 0.16879792511463165  
Epoch: 22, Train\_Loss: 0.17150041460990906, Test\_Loss: 0.1650901585817337 \*  
Epoch: 22, Train\_Loss: 0.2645648121833801, Test\_Loss: 0.17164252698421478  
Epoch: 22, Train\_Loss: 0.2118941843509674, Test\_Loss: 0.18168936669826508  
Epoch: 22, Train\_Loss: 0.41211241483688354, Test\_Loss: 0.16901883482933044 \*  
Epoch: 22, Train\_Loss: 0.1727515161037445, Test\_Loss: 0.16660071909427643 \*  
Epoch: 22, Train\_Loss: 0.6183961629867554, Test\_Loss: 0.17636550962924957  
Epoch: 22, Train\_Loss: 2.5969550609588623, Test\_Loss: 0.17747566103935242  
Epoch: 22, Train\_Loss: 0.21002955734729767, Test\_Loss: 0.16797155141830444 \*  
Epoch: 22, Train\_Loss: 0.23299391567707062, Test\_Loss: 0.2168455421924591  
Epoch: 22, Train\_Loss: 0.19847306609153748, Test\_Loss: 0.21213509142398834 \*  
Epoch: 22, Train\_Loss: 0.18017566204071045, Test\_Loss: 4.291796684265137  
Epoch: 22, Train\_Loss: 0.1686890423297882, Test\_Loss: 1.6042416095733643 \*  
Epoch: 22, Train\_Loss: 0.18065929412841797, Test\_Loss: 0.1693129986524582 \*  
Epoch: 22, Train\_Loss: 0.2476482093334198, Test\_Loss: 0.1788274496793747  
Epoch: 22, Train\_Loss: 0.24885183572769165, Test\_Loss: 0.19085858762264252  
Epoch: 22, Train\_Loss: 0.21273159980773926, Test\_Loss: 0.17884796857833862 \*  
Epoch: 22, Train\_Loss: 0.18712806701660156, Test\_Loss: 0.1776171326637268 \*  
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Epoch: 22, Train\_Loss: 0.1731904000043869, Test\_Loss: 0.22707730531692505 \*  
Epoch: 22, Train\_Loss: 0.18094368278980255, Test\_Loss: 0.16993822157382965 \*  
Epoch: 22, Train\_Loss: 0.18930621445178986, Test\_Loss: 0.18879635632038116  
Epoch: 22, Train\_Loss: 0.19520549476146698, Test\_Loss: 0.18964074552059174  
Epoch: 22, Train\_Loss: 0.18011638522148132, Test\_Loss: 0.18097087740898132 \*  
Epoch: 22, Train\_Loss: 0.16757051646709442, Test\_Loss: 0.17114043235778809 \*  
Epoch: 22, Train\_Loss: 0.18267667293548584, Test\_Loss: 0.1889224350452423  
Epoch: 22, Train\_Loss: 0.17846080660820007, Test\_Loss: 0.21613624691963196  
Epoch: 22, Train\_Loss: 0.18001757562160492, Test\_Loss: 0.2313326895236969  
Epoch: 22, Train\_Loss: 0.16858161985874176, Test\_Loss: 0.18764927983283997 \*  
Epoch: 22, Train\_Loss: 0.16553565859794617, Test\_Loss: 0.22777143120765686  
Epoch: 22, Train\_Loss: 0.1645786613225937, Test\_Loss: 0.18822555243968964 \*  
Epoch: 22, Train\_Loss: 0.16784223914146423, Test\_Loss: 0.17389707267284393 \*  
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Epoch: 22, Train\_Loss: 0.16787894070148468, Test\_Loss: 0.17737261950969696 \*  
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Epoch: 22, Train\_Loss: 0.1666489541530609, Test\_Loss: 0.18345484137535095 \*  
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Epoch: 22, Train\_Loss: 0.17501506209373474, Test\_Loss: 0.1886507272720337  
Epoch: 22, Train\_Loss: 0.17848806083202362, Test\_Loss: 0.17513278126716614 \*  
Epoch: 22, Train\_Loss: 0.1776517927646637, Test\_Loss: 0.1759994775056839  
Epoch: 22, Train\_Loss: 0.1908491551876068, Test\_Loss: 0.20180056989192963  
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Epoch: 22, Train\_Loss: 0.17307785153388977, Test\_Loss: 0.43950390815734863  
Epoch: 22, Train\_Loss: 0.16800929605960846, Test\_Loss: 0.4323870837688446 \*  
Epoch: 22, Train\_Loss: 0.18384601175785065, Test\_Loss: 0.2368210107088089 \*  
Epoch: 22, Train\_Loss: 0.18328067660331726, Test\_Loss: 0.17511916160583496 \*  
Epoch: 22, Train\_Loss: 0.1717883050441742, Test\_Loss: 0.18194794654846191  
Epoch: 22, Train\_Loss: 0.17322133481502533, Test\_Loss: 0.20854148268699646  
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Epoch: 22, Train\_Loss: 0.17905744910240173, Test\_Loss: 0.2249515950679779 \*  
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Epoch: 22, Train\_Loss: 0.21271637082099915, Test\_Loss: 0.24182069301605225 \*  
Epoch: 22, Train\_Loss: 0.16692091524600983, Test\_Loss: 0.19245092570781708 \*  
Epoch: 22, Train\_Loss: 0.19160181283950806, Test\_Loss: 0.1716819852590561 \*  
Epoch: 22, Train\_Loss: 0.21716263890266418, Test\_Loss: 0.16587446630001068 \*  
Epoch: 22, Train\_Loss: 0.17010201513767242, Test\_Loss: 0.19901975989341736  
Epoch: 22, Train\_Loss: 0.17082686722278595, Test\_Loss: 0.17847907543182373 \*  
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Epoch: 22, Train\_Loss: 0.24868115782737732, Test\_Loss: 0.16791388392448425 \*  
Epoch: 22, Train\_Loss: 0.21467995643615723, Test\_Loss: 0.27746498584747314  
Epoch: 22, Train\_Loss: 0.1943933516740799, Test\_Loss: 0.443407267332077  
Epoch: 22, Train\_Loss: 0.1866590976715088, Test\_Loss: 0.31559520959854126 \*  
Epoch: 22, Train\_Loss: 0.16886259615421295, Test\_Loss: 0.37511569261550903  
Epoch: 22, Train\_Loss: 0.19005931913852692, Test\_Loss: 0.17799533903598785 \*  
Epoch: 22, Train\_Loss: 0.16603177785873413, Test\_Loss: 0.17807310819625854  
Epoch: 22, Train\_Loss: 0.1718486100435257, Test\_Loss: 0.17741389572620392 \*  
Epoch: 22, Train\_Loss: 0.17069000005722046, Test\_Loss: 0.1775536835193634  
Epoch: 22, Train\_Loss: 0.17569807171821594, Test\_Loss: 0.19214242696762085  
Epoch: 22, Train\_Loss: 0.21298223733901978, Test\_Loss: 3.4702985286712646  
Epoch: 22, Train\_Loss: 0.19102533161640167, Test\_Loss: 2.305257797241211 \*  
Epoch: 22, Train\_Loss: 0.2081032395362854, Test\_Loss: 0.17670731246471405 \*  
Epoch: 22, Train\_Loss: 0.17638657987117767, Test\_Loss: 0.17506489157676697 \*  
Epoch: 22, Train\_Loss: 0.18484970927238464, Test\_Loss: 0.1741127222776413 \*  
Epoch: 22, Train\_Loss: 0.17276404798030853, Test\_Loss: 0.1726325899362564 \*  
Epoch: 22, Train\_Loss: 0.4267714321613312, Test\_Loss: 0.16904543340206146 \*  
Epoch: 22, Train\_Loss: 0.23941218852996826, Test\_Loss: 0.18382981419563293  
Epoch: 22, Train\_Loss: 0.17585361003875732, Test\_Loss: 0.17238378524780273 \*  
Epoch: 22, Train\_Loss: 0.1846267729997635, Test\_Loss: 0.1672138124704361 \*  
Epoch: 22, Train\_Loss: 0.16455739736557007, Test\_Loss: 0.16974058747291565  
Epoch: 22, Train\_Loss: 0.16823779046535492, Test\_Loss: 0.1687593162059784 \*  
Epoch: 22, Train\_Loss: 0.17269033193588257, Test\_Loss: 0.19154483079910278  
Epoch: 22, Train\_Loss: 0.17287907004356384, Test\_Loss: 0.182398721575737 \*  
Epoch: 22, Train\_Loss: 0.16560162603855133, Test\_Loss: 0.2132209688425064  
Epoch: 22, Train\_Loss: 0.1780485063791275, Test\_Loss: 0.16683974862098694 \*  
Epoch: 22, Train\_Loss: 0.16725888848304749, Test\_Loss: 0.1683483123779297  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 22  
Epoch: 22, Train\_Loss: 0.16800600290298462, Test\_Loss: 0.16938632726669312  
Epoch: 22, Train\_Loss: 0.171743243932724, Test\_Loss: 0.18341806530952454  
Epoch: 22, Train\_Loss: 0.1660022735595703, Test\_Loss: 0.16907256841659546 \*  
Epoch: 22, Train\_Loss: 0.16522210836410522, Test\_Loss: 0.16528385877609253 \*  
Epoch: 22, Train\_Loss: 0.17332008481025696, Test\_Loss: 0.16749116778373718  
Epoch: 22, Train\_Loss: 0.18082059919834137, Test\_Loss: 0.1654876470565796 \*  
Epoch: 22, Train\_Loss: 0.1828242540359497, Test\_Loss: 0.16726967692375183  
Epoch: 22, Train\_Loss: 0.1755998581647873, Test\_Loss: 0.17693164944648743  
Epoch: 22, Train\_Loss: 0.17743128538131714, Test\_Loss: 0.16678133606910706 \*  
Epoch: 22, Train\_Loss: 0.1736820936203003, Test\_Loss: 0.16544191539287567 \*  
Epoch: 22, Train\_Loss: 0.18254047632217407, Test\_Loss: 0.18152305483818054  
Epoch: 22, Train\_Loss: 0.1649879366159439, Test\_Loss: 0.18103940784931183 \*  
Epoch: 22, Train\_Loss: 0.18503805994987488, Test\_Loss: 0.16413310170173645 \*  
Epoch: 22, Train\_Loss: 0.17730242013931274, Test\_Loss: 0.2434895932674408  
Epoch: 22, Train\_Loss: 0.17434458434581757, Test\_Loss: 0.20774491131305695 \*  
Epoch: 22, Train\_Loss: 0.16569863259792328, Test\_Loss: 5.531639099121094  
Epoch: 22, Train\_Loss: 0.18474671244621277, Test\_Loss: 0.5237835049629211 \*  
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Epoch: 22, Train\_Loss: 2.9270896911621094, Test\_Loss: 0.1729930341243744 \*  
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Epoch: 22, Train\_Loss: 0.16604457795619965, Test\_Loss: 0.1734554022550583 \*  
Epoch: 22, Train\_Loss: 0.19998864829540253, Test\_Loss: 0.2703227698802948  
Epoch: 22, Train\_Loss: 0.25612181425094604, Test\_Loss: 0.22962144017219543 \*  
Epoch: 22, Train\_Loss: 0.1906035840511322, Test\_Loss: 0.1642691195011139 \*  
Epoch: 22, Train\_Loss: 0.16761399805545807, Test\_Loss: 0.192422553896904

Epoch: 22, Train\_Loss: 0.19036370515823364, Test\_Loss: 0.17483286559581757 \*  
Epoch: 22, Train\_Loss: 0.2320469617843628, Test\_Loss: 0.17159022390842438 \*  
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Epoch: 22, Train\_Loss: 0.18302224576473236, Test\_Loss: 0.16918303072452545 \*  
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Epoch: 22, Train\_Loss: 0.354985773563385, Test\_Loss: 0.1988394856452942 \*  
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Epoch: 22, Train\_Loss: 1.0061479806900024, Test\_Loss: 0.16997045278549194 \*  
Epoch: 22, Train\_Loss: 0.6910731196403503, Test\_Loss: 0.16763588786125183 \*  
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Epoch: 22, Train\_Loss: 0.3386789560317993, Test\_Loss: 0.1745847761631012 \*  
Epoch: 22, Train\_Loss: 0.17478728294372559, Test\_Loss: 0.1895703822374344  
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Epoch: 22, Train\_Loss: 0.35865986347198486, Test\_Loss: 0.3418799042701721  
Epoch: 22, Train\_Loss: 0.2736465036869049, Test\_Loss: 0.21932353079319 \*  
Epoch: 22, Train\_Loss: 0.20444218814373016, Test\_Loss: 0.18795405328273773 \*  
Epoch: 22, Train\_Loss: 0.24297966063022614, Test\_Loss: 0.17962034046649933 \*  
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Epoch: 23, Train\_Loss: 0.2139962613582611, Test\_Loss: 0.5238237380981445 \*  
Epoch: 23, Train\_Loss: 0.27416935563087463, Test\_Loss: 0.20007562637329102 \*  
Epoch: 23, Train\_Loss: 0.2799232602119446, Test\_Loss: 0.4080215096473694  
Epoch: 23, Train\_Loss: 0.20329682528972626, Test\_Loss: 0.21334245800971985 \*  
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Epoch: 23, Train\_Loss: 0.2769048511981964, Test\_Loss: 0.17537306249141693 \*  
Epoch: 23, Train\_Loss: 0.17963626980781555, Test\_Loss: 0.169327974319458 \*  
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Epoch: 23, Train\_Loss: 0.33296364545822144, Test\_Loss: 0.2198604941368103 \*  
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Epoch: 23, Train\_Loss: 0.46779778599739075, Test\_Loss: 0.18690751492977142  
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Epoch: 23, Train\_Loss: 0.2708930969238281, Test\_Loss: 0.17003819346427917 \*  
Epoch: 23, Train\_Loss: 0.21832428872585297, Test\_Loss: 0.17563560605049133  
Epoch: 23, Train\_Loss: 0.18139146268367767, Test\_Loss: 0.19285650551319122  
Epoch: 23, Train\_Loss: 0.23444440960884094, Test\_Loss: 0.1698918342590332 \*  
Epoch: 23, Train\_Loss: 0.2202633023262024, Test\_Loss: 0.17403925955295563  
Epoch: 23, Train\_Loss: 0.18406391143798828, Test\_Loss: 0.2247796356678009  
Epoch: 23, Train\_Loss: 0.18201853334903717, Test\_Loss: 0.19194021821022034 \*

Epoch: 23, Train\_Loss: 0.1786925047636032, Test\_Loss: 0.1647110879421234 \*  
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Epoch: 23, Train\_Loss: 0.5980725288391113, Test\_Loss: 0.21599988639354706 \*  
Epoch: 23, Train\_Loss: 0.45103734731674194, Test\_Loss: 0.17968858778476715 \*  
Epoch: 23, Train\_Loss: 0.3641424775123596, Test\_Loss: 0.21991252899169922  
Epoch: 23, Train\_Loss: 0.22277502715587616, Test\_Loss: 0.17271766066551208 \*  
Epoch: 23, Train\_Loss: 0.19519682228565216, Test\_Loss: 0.17212878167629242 \*  
Epoch: 23, Train\_Loss: 0.17233231663703918, Test\_Loss: 0.17713680863380432  
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Epoch: 23, Train\_Loss: 0.26781612634658813, Test\_Loss: 0.2027634084224701 \*  
Epoch: 23, Train\_Loss: 0.4753754138946533, Test\_Loss: 0.16481679677963257 \*  
Epoch: 23, Train\_Loss: 0.579097330570221, Test\_Loss: 0.18801641464233398  
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Epoch: 23, Train\_Loss: 1.1533204317092896, Test\_Loss: 0.17887799441814423 \*  
Epoch: 23, Train\_Loss: 0.2732253074645996, Test\_Loss: 0.2222822904586792  
Epoch: 23, Train\_Loss: 0.3716498017311096, Test\_Loss: 0.2044423520565033 \*  
Epoch: 23, Train\_Loss: 0.16868016123771667, Test\_Loss: 0.23916953802108765  
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Epoch: 23, Train\_Loss: 0.19330348074436188, Test\_Loss: 0.24172770977020264 \*  
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Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 23  
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Epoch: 23, Train_Loss: 0.16988331079483032, Test_Loss: 0.16715571284294128 *
Epoch: 23, Train_Loss: 0.28338801860809326, Test_Loss: 0.1642758995294571 *
Epoch: 23, Train_Loss: 0.3281315565109253, Test_Loss: 0.18183358013629913
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Epoch: 23, Train_Loss: 0.1718517690896988, Test_Loss: 0.17865091562271118 *
Epoch: 23, Train_Loss: 0.16335584223270416, Test_Loss: 0.161183163523674 *
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Epoch: 23, Train_Loss: 0.1742180734872818, Test_Loss: 0.15889796614646912 *
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Epoch: 24, Train\_Loss: 0.18605566024780273, Test\_Loss: 0.19040906429290771 \*

Epoch: 24, Train\_Loss: 0.17427262663841248, Test\_Loss: 0.22020182013511658

Epoch: 24, Train\_Loss: 0.15875060856342316, Test\_Loss: 0.2714955806732178

Epoch: 24, Train\_Loss: 0.15934360027313232, Test\_Loss: 0.25625473260879517 \*

Epoch: 24, Train\_Loss: 0.1803554743528366, Test\_Loss: 0.28729933500289917

Epoch: 24, Train\_Loss: 0.16050297021865845, Test\_Loss: 0.22235113382339478 \*

Epoch: 24, Train\_Loss: 0.16041837632656097, Test\_Loss: 0.2189505398273468 \*

Epoch: 24, Train\_Loss: 0.18017549812793732, Test\_Loss: 0.31341078877449036

Epoch: 24, Train\_Loss: 0.18467190861701965, Test\_Loss: 0.24118074774742126 \*

Epoch: 24, Train\_Loss: 0.17341431975364685, Test\_Loss: 0.17450180649757385 \*

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Epoch: 24, Train\_Loss: 0.17178231477737427, Test\_Loss: 0.16670483350753784 \*

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Epoch: 24, Train\_Loss: 0.2735055983066559, Test\_Loss: 0.20073261857032776

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Epoch: 24, Train\_Loss: 0.1571662425994873, Test\_Loss: 0.1645176112651825 \*

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Epoch: 24, Train\_Loss: 4.432866096496582, Test\_Loss: 0.17038486897945404

Epoch: 24, Train\_Loss: 0.18820419907569885, Test\_Loss: 0.18035179376602173

Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save copy\model.ckpt at epoch 24

Epoch: 24, Train\_Loss: 0.16515059769153595, Test\_Loss: 0.18775352835655212

Epoch: 24, Train\_Loss: 0.1669834852218628, Test\_Loss: 0.16281764209270477 \*

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Epoch: 24, Train\_Loss: 0.1907961517572403, Test\_Loss: 0.18051470816135406 \*

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Epoch: 24, Train\_Loss: 0.26165056228637695, Test\_Loss: 0.15855588018894196 \*  
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Epoch: 24, Train\_Loss: 0.18865200877189636, Test\_Loss: 0.15748071670532227 \*  
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Epoch: 24, Train\_Loss: 0.17348039150238037, Test\_Loss: 0.22046756744384766 \*  
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copy\model.ckpt at epoch 24

Epoch: 24, Train\_Loss: 0.16229715943336487, Test\_Loss: 0.17144079506397247 \*  
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Epoch: 24, Train\_Loss: 0.18172475695610046, Test\_Loss: 0.16720345616340637 \*  
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Epoch: 24, Train\_Loss: 0.22227944433689117, Test\_Loss: 0.17451515793800354 \*  
Epoch: 24, Train\_Loss: 0.22057756781578064, Test\_Loss: 0.19690462946891785  
Epoch: 24, Train\_Loss: 0.21518594026565552, Test\_Loss: 0.15991920232772827 \*  
Epoch: 24, Train\_Loss: 0.24908539652824402, Test\_Loss: 0.1652136892080307  
Epoch: 24, Train\_Loss: 0.1721993088722229, Test\_Loss: 0.20513728260993958  
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Epoch: 24, Train\_Loss: 0.20890262722969055, Test\_Loss: 0.20694908499717712  
Epoch: 24, Train\_Loss: 0.483009934425354, Test\_Loss: 0.16481724381446838 \*  
Epoch: 24, Train\_Loss: 0.4198977053165436, Test\_Loss: 0.1636086106300354 \*  
Epoch: 24, Train\_Loss: 0.2535736560821533, Test\_Loss: 0.17751790583133698  
Epoch: 24, Train\_Loss: 0.1993112564086914, Test\_Loss: 0.2769961357116699  
Epoch: 24, Train\_Loss: 0.17660078406333923, Test\_Loss: 0.1714611053466797 \*  
Epoch: 24, Train\_Loss: 0.16417133808135986, Test\_Loss: 0.1592818647623062 \*  
Epoch: 24, Train\_Loss: 0.4244239926338196, Test\_Loss: 0.18405482172966003  
Epoch: 24, Train\_Loss: 0.1897066980600357, Test\_Loss: 0.18292884528636932 \*  
Epoch: 24, Train\_Loss: 0.2102571725845337, Test\_Loss: 0.1703878939151764 \*  
Epoch: 24, Train\_Loss: 0.2899421453475952, Test\_Loss: 0.22642986476421356  
Epoch: 24, Train\_Loss: 0.1993204951286316, Test\_Loss: 0.18144603073596954 \*  
Epoch: 24, Train\_Loss: 0.17802882194519043, Test\_Loss: 0.16009874641895294 \*  
Epoch: 24, Train\_Loss: 0.22215057909488678, Test\_Loss: 0.1799539178609848  
Epoch: 24, Train\_Loss: 0.31696751713752747, Test\_Loss: 0.15718895196914673 \*  
Epoch: 24, Train\_Loss: 0.18976113200187683, Test\_Loss: 0.1699085533618927  
Epoch: 24, Train\_Loss: 0.2261621654033661, Test\_Loss: 0.1729251742362976  
Epoch: 24, Train\_Loss: 0.18593458831310272, Test\_Loss: 0.16991332173347473 \*  
Epoch: 24, Train\_Loss: 0.2148992419242859, Test\_Loss: 0.1617489755153656 \*  
Epoch: 24, Train\_Loss: 0.2055211365222931, Test\_Loss: 0.1880284547805786  
Epoch: 24, Train\_Loss: 0.18009236454963684, Test\_Loss: 0.19134710729122162  
Epoch: 24, Train\_Loss: 0.1634349822998047, Test\_Loss: 0.17610472440719604 \*  
Epoch: 24, Train\_Loss: 0.17785508930683136, Test\_Loss: 0.17343711853027344 \*  
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Epoch: 24, Train\_Loss: 0.4486401081085205, Test\_Loss: 2.9475181102752686  
Epoch: 24, Train\_Loss: 0.5097835063934326, Test\_Loss: 2.6471710205078125 \*  
Epoch: 24, Train\_Loss: 0.5181560516357422, Test\_Loss: 0.17482981085777283 \*  
Epoch: 24, Train\_Loss: 0.3653731346130371, Test\_Loss: 0.16217052936553955 \*  
Epoch: 24, Train\_Loss: 0.23657941818237305, Test\_Loss: 0.1632208377122879  
Epoch: 24, Train\_Loss: 0.21795588731765747, Test\_Loss: 0.16177619993686676 \*  
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Epoch: 24, Train\_Loss: 0.39125925302505493, Test\_Loss: 0.15671339631080627 \*  
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Epoch: 24, Train\_Loss: 0.5256317853927612, Test\_Loss: 0.17981038987636566 \*  
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Epoch: 24, Train\_Loss: 0.583594024181366, Test\_Loss: 0.16441646218299866 \*  
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Epoch: 24, Train\_Loss: 0.16241994500160217, Test\_Loss: 0.22930613160133362  
Epoch: 24, Train\_Loss: 0.37985920906066895, Test\_Loss: 0.16875708103179932 \*  
Epoch: 24, Train\_Loss: 0.35562050342559814, Test\_Loss: 0.1941760778427124  
Epoch: 24, Train\_Loss: 0.44694983959198, Test\_Loss: 0.17810480296611786 \*  
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Epoch: 24, Train\_Loss: 0.31003421545028687, Test\_Loss: 0.2512340545654297 \*  
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Epoch: 24, Train\_Loss: 0.20755484104156484, Test\_Loss: 0.24167384628061522 \*

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Epoch: 24, Train\_Loss: 0.1635218858718872, Test\_Loss: 0.15682841837406158 \*  
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Epoch: 24, Train\_Loss: 0.2496483027935028, Test\_Loss: 0.20431400835514069  
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Epoch: 24, Train\_Loss: 0.7052448391914368, Test\_Loss: 0.18673694133758545 \*  
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Epoch: 24, Train\_Loss: 0.6031582355499268, Test\_Loss: 0.20591402053833008 \*  
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Epoch: 24, Train\_Loss: 3.6381521224975586, Test\_Loss: 0.21590353548526764 \*  
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Epoch: 24, Train\_Loss: 0.2469167411327362, Test\_Loss: 0.2271871566772461 \*  
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Epoch: 24, Train\_Loss: 0.15639816224575043, Test\_Loss: 0.7238103151321411  
Epoch: 24, Train\_Loss: 0.1749013364315033, Test\_Loss: 0.5382291078567505 \*  
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Epoch: 24, Train\_Loss: 0.20964692533016205, Test\_Loss: 0.41063475608825684 \*  
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Epoch: 24, Train\_Loss: 0.3080483078956604, Test\_Loss: 0.39389336109161377 \*  
Epoch: 24, Train\_Loss: 5.301253795623779, Test\_Loss: 0.175453320145607 \*  
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Epoch: 24, Train\_Loss: 0.8069497346878052, Test\_Loss: 0.1647283136844635 \*  
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Epoch: 24, Train\_Loss: 0.1820012778043747, Test\_Loss: 0.31993013620376587  
Epoch: 24, Train\_Loss: 0.21232455968858812, Test\_Loss: 0.2143058329820633 \*  
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Epoch: 24, Train\_Loss: 0.24864734709262848, Test\_Loss: 0.16803669929504395 \*  
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Epoch: 24, Train\_Loss: 0.19015324115753174, Test\_Loss: 0.20385466516017914 \*  
Epoch: 24, Train\_Loss: 0.17781513929367065, Test\_Loss: 0.20233729481697083 \*  
Epoch: 24, Train\_Loss: 0.17916180193424225, Test\_Loss: 0.17998343706130981 \*  
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Epoch: 25, Train\_Loss: 0.15587230026721954, Test\_Loss: 0.33857035636901855 \*  
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Epoch: 25, Train\_Loss: 0.1549813449382782, Test\_Loss: 0.16886626183986664 \*  
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Epoch: 25, Train\_Loss: 0.24191202223300934, Test\_Loss: 0.15497557818889618 \*  
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Epoch: 25, Train\_Loss: 0.21889516711235046, Test\_Loss: 0.20662792026996613  
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Epoch: 25, Train\_Loss: 1.5225387811660767, Test\_Loss: 0.16482265293598175  
Epoch: 25, Train\_Loss: 0.1615428401361566, Test\_Loss: 0.16388043561067647 \*

Epoch: 25, Train\_Loss: 1.49154794216156, Test\_Loss: 0.161089435219764 / \*

Epoch: 25, Train\_Loss: 0.21292729675769806, Test\_Loss: 0.15369628369808197 \*

Epoch: 25, Train\_Loss: 0.18665574491024017, Test\_Loss: 0.2538021504878998

Epoch: 25, Train\_Loss: 0.16081452369689941, Test\_Loss: 0.21199823915958405 \*

Epoch: 25, Train\_Loss: 0.17689447104930878, Test\_Loss: 4.63915491104126

Epoch: 25, Train\_Loss: 0.15872721374034882, Test\_Loss: 0.5281506776809692 \*

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Epoch: 25, Train\_Loss: 0.19961446523666382, Test\_Loss: 0.16631142795085907 \*

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Epoch: 25, Train\_Loss: 0.16979889571666718, Test\_Loss: 0.16062456369400024 \*

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Epoch: 25, Train\_Loss: 0.15881963074207306, Test\_Loss: 0.2032863199710846 \*

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Epoch: 25, Train\_Loss: 0.17139451205730438, Test\_Loss: 0.17251721024513245 \*

Epoch: 25, Train\_Loss: 0.1580968201160431, Test\_Loss: 0.17452150583267212

Epoch: 25, Train\_Loss: 0.16695186495780945, Test\_Loss: 0.1637602001428604 \*

Epoch: 25, Train\_Loss: 0.16203853487968445, Test\_Loss: 0.19777090847492218

Epoch: 25, Train\_Loss: 0.16785791516304016, Test\_Loss: 0.20404118299484253

Epoch: 25, Train\_Loss: 0.15483586490154266, Test\_Loss: 0.19128647446632385 \*

Epoch: 25, Train\_Loss: 0.15336140990257263, Test\_Loss: 0.25568535923957825

Epoch: 25, Train\_Loss: 0.15267913043498993, Test\_Loss: 0.17532643675804138 \*

Epoch: 25, Train\_Loss: 0.16806861758232117, Test\_Loss: 0.15895918011665344 \*

Epoch: 25, Train\_Loss: 0.15404978394508362, Test\_Loss: 0.17732422053813934

Epoch: 25, Train\_Loss: 0.15603657066822052, Test\_Loss: 0.16978199779987335 \*

Epoch: 25, Train\_Loss: 0.15943607687950134, Test\_Loss: 0.16568008065223694 \*

Epoch: 25, Train\_Loss: 0.1551472395658493, Test\_Loss: 0.16682828962802887

Epoch: 25, Train\_Loss: 0.1528724581003189, Test\_Loss: 0.16888508200645447

Epoch: 25, Train\_Loss: 0.16044586896896362, Test\_Loss: 0.18244755268096924

Epoch: 25, Train\_Loss: 0.16833892464637756, Test\_Loss: 0.17461861670017242 \*

Epoch: 25, Train\_Loss: 0.1668408066034317, Test\_Loss: 0.16310450434684753 \*

Epoch: 25, Train\_Loss: 0.1620895266532898, Test\_Loss: 0.1643170714378357

Epoch: 25, Train\_Loss: 0.183824822306633, Test\_Loss: 0.21105067431926727

Epoch: 25, Train\_Loss: 0.17148813605308533, Test\_Loss: 0.19714368879795074 \*

Epoch: 25, Train\_Loss: 0.1774522066116333, Test\_Loss: 0.3888726234436035

Epoch: 25, Train\_Loss: 0.16628724336624146, Test\_Loss: 0.29951751232147217 \*

Epoch: 25, Train\_Loss: 0.1713382601737976, Test\_Loss: 0.3189433515071869

Epoch: 25, Train\_Loss: 0.18443360924720764, Test\_Loss: 0.20199933648109436 \*

Epoch: 25, Train\_Loss: 0.1665465086698532, Test\_Loss: 0.1672016829252243 \*

Epoch: 25, Train\_Loss: 0.16186338663101196, Test\_Loss: 0.1608261615037918 \*

Epoch: 25, Train\_Loss: 0.15941578149795532, Test\_Loss: 0.18922974169254303

Epoch: 25, Train\_Loss: 0.16333463788032532, Test\_Loss: 0.4110032916069031

Epoch: 25, Train\_Loss: 0.19057492911815643, Test\_Loss: 0.2246416062116623 \*

Epoch: 25, Train\_Loss: 0.2014417201280594, Test\_Loss: 0.3582102656364441

Epoch: 25, Train\_Loss: 0.18022875487804413, Test\_Loss: 0.22568151354789734 \*

Epoch: 25, Train\_Loss: 0.15274560451507568, Test\_Loss: 0.162933811545372 \*

Epoch: 25, Train\_Loss: 0.1890399158000946, Test\_Loss: 0.16014017164707184 \*

Epoch: 25, Train\_Loss: 0.17445334792137146, Test\_Loss: 0.1563427597284317 \*

Epoch: 25, Train\_Loss: 0.15608090162277222, Test\_Loss: 0.17232489585876465

Epoch: 25, Train\_Loss: 0.15701811015605927, Test\_Loss: 0.1696251928806305 \*

Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save copy\model.ckpt at epoch 25

Epoch: 25, Train\_Loss: 0.20626381039619446, Test\_Loss: 0.18425452709197998

Epoch: 25, Train\_Loss: 0.24969281256198883, Test\_Loss: 0.16071760654449463 \*

Epoch: 25, Train\_Loss: 0.19691504538059235, Test\_Loss: 0.24201154708862305

Epoch: 25, Train\_Loss: 0.18356984853744507, Test\_Loss: 0.5004918575286865

Epoch: 25, Train\_Loss: 0.1774381697177887, Test\_Loss: 0.21582576632499695 \*

Epoch: 25, Train\_Loss: 0.15750746428966522, Test\_Loss: 0.3381931185722351

Epoch: 25, Train\_Loss: 0.17027004063129425, Test\_Loss: 0.16507196426391602 \*

Epoch: 25, Train\_Loss: 0.15499535202980042, Test\_Loss: 0.16577810049057007

Epoch: 25, Train\_Loss: 0.171289324760437, Test\_Loss: 0.16577304899692535 \*

Epoch: 25, Train\_Loss: 0.15811146795749664, Test\_Loss: 0.16541649401187897 \*

Epoch: 25, Train\_Loss: 0.15971560776233673, Test\_Loss: 0.17651227116584778

Epoch: 25, Train\_Loss: 0.21690762042999268, Test\_Loss: 4.576467990875244

Epoch: 25, Train\_Loss: 0.15408329665660858, Test\_Loss: 1.2067549228668213 \*

Epoch: 25, Train\_Loss: 0.20745135843753815, Test\_Loss: 0.16381506621837616 \*

Epoch: 25, Train\_Loss: 0.1681443154811859, Test\_Loss: 0.15843220055103302 \*

Epoch: 25, Train\_Loss: 0.197081059217453, Test\_Loss: 0.15661108493804932 \*

Epoch: 25, Train\_Loss: 0.2008449137210846, Test\_Loss: 0.1575394570827484

Epoch: 25, Train\_Loss: 0.4132081866264343, Test\_Loss: 0.16062873601913452

Epoch: 25, Train\_Loss: 0.16084839403629303, Test\_Loss: 0.15656925737857819 \*

Epoch: 25, Train\_Loss: 0.17653527855873108, Test\_Loss: 0.15650756657123566 \*

Epoch: 25, Train\_Loss: 0.15238650143146515, Test\_Loss: 0.15405307710170746 \*

Epoch: 25, Train\_Loss: 0.1523890346288681, Test\_Loss: 0.15727175772190094

Epoch: 25, Train\_Loss: 0.15534211695194244, Test\_Loss: 0.16216041147708893



Epoch: 25, Train\_Loss: 0.15478962659835815, Test\_Loss: 0.1680353581905365  
Epoch: 25, Train\_Loss: 0.15818573534488678, Test\_Loss: 0.17263643443584442  
Epoch: 25, Train\_Loss: 0.15581414103507996, Test\_Loss: 0.17691531777381897  
Epoch: 25, Train\_Loss: 0.1674226075410843, Test\_Loss: 0.15309631824493408 \*  
Epoch: 25, Train\_Loss: 0.1566440612077713, Test\_Loss: 0.15359172224998474  
Epoch: 25, Train\_Loss: 0.15803028643131256, Test\_Loss: 0.15237972140312195 \*  
Epoch: 25, Train\_Loss: 0.16218045353889465, Test\_Loss: 0.16252505779266357  
Epoch: 25, Train\_Loss: 0.15447771549224854, Test\_Loss: 0.15561895072460175 \*  
Epoch: 25, Train\_Loss: 0.1521092802286148, Test\_Loss: 0.15282581746578217 \*  
Epoch: 25, Train\_Loss: 0.17036812007427216, Test\_Loss: 0.15364325046539307  
Epoch: 25, Train\_Loss: 0.15888679027557373, Test\_Loss: 0.15416893362998962  
Epoch: 25, Train\_Loss: 0.177016481757164, Test\_Loss: 0.1556604653596878  
Epoch: 25, Train\_Loss: 0.15388324856758118, Test\_Loss: 0.1694028675556183  
Epoch: 25, Train\_Loss: 0.1613989770412445, Test\_Loss: 0.1551169753074646 \*  
Epoch: 25, Train\_Loss: 0.16673319041728973, Test\_Loss: 0.15326304733753204 \*  
Epoch: 25, Train\_Loss: 0.17909565567970276, Test\_Loss: 0.15427519381046295  
Epoch: 25, Train\_Loss: 0.15351498126983643, Test\_Loss: 0.15307600796222687 \*  
Epoch: 25, Train\_Loss: 0.17402756214141846, Test\_Loss: 0.15324698388576508  
Epoch: 25, Train\_Loss: 0.153520405292511, Test\_Loss: 0.24320602416992188  
Epoch: 25, Train\_Loss: 0.1688431203365326, Test\_Loss: 0.3104715943336487  
Epoch: 25, Train\_Loss: 0.15722958743572235, Test\_Loss: 5.552005290985107  
Epoch: 25, Train\_Loss: 0.16924726963043213, Test\_Loss: 0.20919984579086304 \*  
Epoch: 25, Train\_Loss: 0.38635027408599854, Test\_Loss: 0.15311191976070404 \*  
Epoch: 25, Train\_Loss: 3.9482955932617188, Test\_Loss: 0.17220911383628845  
Epoch: 25, Train\_Loss: 1.764738917350769, Test\_Loss: 0.15697520971298218 \*  
Epoch: 25, Train\_Loss: 0.16725607216358185, Test\_Loss: 0.16630595922470093  
Epoch: 25, Train\_Loss: 0.15676188468933105, Test\_Loss: 0.1625632345676422 \*  
Epoch: 25, Train\_Loss: 0.19564853608608246, Test\_Loss: 0.26836761832237244  
Epoch: 25, Train\_Loss: 0.21361833810806274, Test\_Loss: 0.20254792273044586 \*  
Epoch: 25, Train\_Loss: 0.16466914117336273, Test\_Loss: 0.15262804925441742 \*  
Epoch: 25, Train\_Loss: 0.15181134641170502, Test\_Loss: 0.18973372876644135  
Epoch: 25, Train\_Loss: 0.19948308169841766, Test\_Loss: 0.1603141725063324 \*  
Epoch: 25, Train\_Loss: 0.19024983048439026, Test\_Loss: 0.16295339167118073  
Epoch: 25, Train\_Loss: 0.15975214540958405, Test\_Loss: 0.18679045140743256  
Epoch: 25, Train\_Loss: 0.3206065595149994, Test\_Loss: 0.16757996380329132 \*  
Epoch: 25, Train\_Loss: 0.407953143119812, Test\_Loss: 0.21362608671188354  
Epoch: 25, Train\_Loss: 0.7848491072654724, Test\_Loss: 0.2190903127193451  
Epoch: 25, Train\_Loss: 0.2162000983953476, Test\_Loss: 0.19335505366325378 \*  
Epoch: 25, Train\_Loss: 0.26678037643432617, Test\_Loss: 0.19032058119773865 \*  
Epoch: 25, Train\_Loss: 1.1106300354003906, Test\_Loss: 0.15820008516311646 \*  
Epoch: 25, Train\_Loss: 0.693156898021698, Test\_Loss: 0.16509774327278137  
Epoch: 25, Train\_Loss: 0.1573439985513687, Test\_Loss: 0.16552457213401794  
Epoch: 25, Train\_Loss: 0.15651831030845642, Test\_Loss: 0.17014998197555542  
Epoch: 25, Train\_Loss: 0.6084378957748413, Test\_Loss: 0.16331730782985687 \*  
Epoch: 25, Train\_Loss: 0.4532075524330139, Test\_Loss: 0.16783544421195984  
Epoch: 25, Train\_Loss: 0.7630974650382996, Test\_Loss: 0.18990054726600647  
Epoch: 25, Train\_Loss: 0.15672567486763, Test\_Loss: 0.21285216510295868  
Epoch: 25, Train\_Loss: 0.17213788628578186, Test\_Loss: 0.16480137407779694 \*  
Epoch: 25, Train\_Loss: 0.32584255933761597, Test\_Loss: 0.17107868194580078  
Epoch: 25, Train\_Loss: 0.37818142771720886, Test\_Loss: 0.1593484878540039 \*  
Epoch: 25, Train\_Loss: 0.16437876224517822, Test\_Loss: 0.18450945615768433  
Epoch: 25, Train\_Loss: 0.2217148244380951, Test\_Loss: 0.1760241836309433 \*  
Epoch: 25, Train\_Loss: 0.19481965899467468, Test\_Loss: 0.4126499593257904  
Epoch: 25, Train\_Loss: 0.19078828394412994, Test\_Loss: 0.28994202613830566 \*  
Epoch: 25, Train\_Loss: 0.3040348291397095, Test\_Loss: 0.2737327814102173 \*  
Epoch: 25, Train\_Loss: 0.2280135154724121, Test\_Loss: 0.2070470005273819 \*  
Epoch: 25, Train\_Loss: 0.18727020919322968, Test\_Loss: 0.17571412026882172 \*  
Epoch: 25, Train\_Loss: 0.21347114443778992, Test\_Loss: 0.15917949378490448 \*  
Epoch: 25, Train\_Loss: 0.2335592806339264, Test\_Loss: 0.1672711968421936  
Epoch: 25, Train\_Loss: 0.19446146488189697, Test\_Loss: 0.37276744842529297  
Epoch: 25, Train\_Loss: 0.29453983902931213, Test\_Loss: 0.22994323074817657 \*  
Epoch: 25, Train\_Loss: 0.3660317361354828, Test\_Loss: 0.251960426568985  
Epoch: 25, Train\_Loss: 0.18420417606830597, Test\_Loss: 0.2834387421607971  
Epoch: 25, Train\_Loss: 0.18309110403060913, Test\_Loss: 0.1657313108444214 \*  
Epoch: 25, Train\_Loss: 0.2034679800271988, Test\_Loss: 0.15738588571548462 \*  
Epoch: 25, Train\_Loss: 0.1728190779685974, Test\_Loss: 0.16199231147766113  
Epoch: 25, Train\_Loss: 0.15600495040416718, Test\_Loss: 0.19964326918125153  
Epoch: 25, Train\_Loss: 0.15274937450885773, Test\_Loss: 0.15874850749969482 \*  
Epoch: 25, Train\_Loss: 0.15322083234786987, Test\_Loss: 0.17724478244781494  
Epoch: 25, Train\_Loss: 0.15577593445777893, Test\_Loss: 0.15836021304130554 \*  
Epoch: 25, Train\_Loss: 0.16031108796596527, Test\_Loss: 0.3503694534301758  
Epoch: 25, Train\_Loss: 0.16464564204216003, Test\_Loss: 0.5071303844451904  
Epoch: 25, Train\_Loss: 0.163430854678154, Test\_Loss: 0.26078566908836365 \*  
Epoch: 25, Train\_Loss: 0.1723751723766327, Test\_Loss: 0.4465070068836212  
Epoch: 25, Train\_Loss: 0.28985023498535156, Test\_Loss: 0.2637103199958801 \*  
Epoch: 25, Train\_Loss: 0.44818615913391113, Test\_Loss: 0.2652841806411743  
Epoch: 25, Train\_Loss: 0.17053599655628204, Test\_Loss: 0.2647998332977295 \*

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Epoch: 25, Train\_Loss: 0.2072770893573761, Test\_Loss: 0.2619381844997406 \*  
Epoch: 25, Train\_Loss: 0.1990944743156433, Test\_Loss: 0.2685248851776123  
Epoch: 25, Train\_Loss: 0.19578154385089874, Test\_Loss: 5.220847129821777  
Epoch: 25, Train\_Loss: 0.24795016646385193, Test\_Loss: 0.4263001084327698 \*  
Epoch: 25, Train\_Loss: 0.1907743513584137, Test\_Loss: 0.16399802267551422 \*  
Epoch: 25, Train\_Loss: 0.3571479320526123, Test\_Loss: 0.17732401192188263  
Epoch: 25, Train\_Loss: 0.21716687083244324, Test\_Loss: 0.16486254334449768 \*  
Epoch: 25, Train\_Loss: 0.2685348689556122, Test\_Loss: 0.16663795709609985  
Epoch: 25, Train\_Loss: 0.16997525095939636, Test\_Loss: 0.18598003685474396  
Epoch: 25, Train\_Loss: 0.18059858679771423, Test\_Loss: 0.1758326292037964 \*  
Epoch: 25, Train\_Loss: 0.37467700242996216, Test\_Loss: 0.17212212085723877 \*  
Epoch: 25, Train\_Loss: 0.5682811141014099, Test\_Loss: 0.1587953269481659 \*  
Epoch: 25, Train\_Loss: 0.43531087040901184, Test\_Loss: 0.1713697761297226  
Epoch: 25, Train\_Loss: 0.20090289413928986, Test\_Loss: 0.2482559084892273  
Epoch: 25, Train\_Loss: 0.1860729604959488, Test\_Loss: 0.1763419508934021 \*  
Epoch: 25, Train\_Loss: 0.16073361039161682, Test\_Loss: 0.165956512093544 \*  
Epoch: 25, Train\_Loss: 0.43227678537368774, Test\_Loss: 0.1784113645553589  
Epoch: 25, Train\_Loss: 0.2939000129699707, Test\_Loss: 0.15712052583694458 \*  
Epoch: 25, Train\_Loss: 0.16348180174827576, Test\_Loss: 0.1577543318271637  
Epoch: 25, Train\_Loss: 0.3407214879989624, Test\_Loss: 0.17599545419216156  
Epoch: 25, Train\_Loss: 0.17590327560901642, Test\_Loss: 0.17386209964752197 \*  
Epoch: 25, Train\_Loss: 0.16987016797065735, Test\_Loss: 0.1541600525379181 \*  
Epoch: 25, Train\_Loss: 0.19382601976394653, Test\_Loss: 0.1774573177099228  
Epoch: 25, Train\_Loss: 0.25104376673698425, Test\_Loss: 0.15757274627685547 \*  
Epoch: 25, Train\_Loss: 0.19687986373901367, Test\_Loss: 0.164451465010643  
Epoch: 25, Train\_Loss: 0.2515197992324829, Test\_Loss: 0.16115355491638184 \*  
Epoch: 25, Train\_Loss: 0.16162344813346863, Test\_Loss: 0.18757468461990356  
Epoch: 25, Train\_Loss: 0.22390314936637878, Test\_Loss: 0.15837985277175903 \*  
Epoch: 25, Train\_Loss: 0.1879907101392746, Test\_Loss: 0.15980347990989685  
Epoch: 25, Train\_Loss: 0.18074648082256317, Test\_Loss: 0.19087721407413483  
Epoch: 25, Train\_Loss: 0.16748663783073425, Test\_Loss: 0.16446423530578613 \*  
Epoch: 25, Train\_Loss: 0.17254242300987244, Test\_Loss: 0.1550990343093872 \*  
Epoch: 25, Train\_Loss: 0.32097750902175903, Test\_Loss: 0.26294389367103577  
Epoch: 25, Train\_Loss: 0.3761424124240875, Test\_Loss: 1.1630792617797852  
Epoch: 25, Train\_Loss: 0.3665023446083069, Test\_Loss: 3.8252663612365723  
Epoch: 25, Train\_Loss: 0.575897753238678, Test\_Loss: 0.18762624263763428 \*  
Epoch: 25, Train\_Loss: 0.4439406394958496, Test\_Loss: 0.1602693647146225 \*  
Epoch: 25, Train\_Loss: 0.27513188123703003, Test\_Loss: 0.1880965232849121  
Epoch: 25, Train\_Loss: 0.23298346996307373, Test\_Loss: 0.17458681762218475 \*  
Epoch: 25, Train\_Loss: 0.16628485918045044, Test\_Loss: 0.1616557538509369 \*  
Epoch: 25, Train\_Loss: 0.15756943821907043, Test\_Loss: 0.1877245008945465  
Epoch: 25, Train\_Loss: 0.1681145578622818, Test\_Loss: 0.20256048440933228  
Epoch: 25, Train\_Loss: 0.30191096663475037, Test\_Loss: 0.17276720702648163 \*  
Epoch: 25, Train\_Loss: 0.38252460956573486, Test\_Loss: 0.16338030993938446 \*  
Epoch: 25, Train\_Loss: 0.40157338976860046, Test\_Loss: 0.1913314312696457  
Epoch: 25, Train\_Loss: 0.8075286149978638, Test\_Loss: 0.20102559030056  
Epoch: 25, Train\_Loss: 1.0956075191497803, Test\_Loss: 0.17909826338291168 \*  
Epoch: 25, Train\_Loss: 0.2989458441734314, Test\_Loss: 0.245828777551651  
Epoch: 25, Train\_Loss: 0.2341729998588562, Test\_Loss: 0.19629892706871033 \*  
Epoch: 25, Train\_Loss: 0.15696962177753448, Test\_Loss: 0.23803992569446564  
Epoch: 25, Train\_Loss: 0.28693926334381104, Test\_Loss: 0.175633043050766 \*  
Epoch: 25, Train\_Loss: 0.32405591011047363, Test\_Loss: 0.20441070199012756  
Epoch: 25, Train\_Loss: 0.7084752321243286, Test\_Loss: 0.20668785274028778  
Epoch: 25, Train\_Loss: 0.18129460513591766, Test\_Loss: 0.20177499949932098 \*  
Epoch: 25, Train\_Loss: 0.17477798461914062, Test\_Loss: 0.33003661036491394  
Epoch: 25, Train\_Loss: 0.21719315648078918, Test\_Loss: 0.31729328632354736 \*  
Epoch: 25, Train\_Loss: 0.40188315510749817, Test\_Loss: 0.318331241607666  
Epoch: 25, Train\_Loss: 0.28944411873817444, Test\_Loss: 0.3151906132698059 \*  
Epoch: 25, Train\_Loss: 0.2828499674797058, Test\_Loss: 0.2800126075744629 \*  
Epoch: 25, Train\_Loss: 0.2833068370819092, Test\_Loss: 0.2752975523471832 \*  
Epoch: 25, Train\_Loss: 0.2123061716556549, Test\_Loss: 0.2867615222930908  
Epoch: 25, Train\_Loss: 0.15977159142494202, Test\_Loss: 0.17195433378219604 \*  
Epoch: 25, Train\_Loss: 0.1750418096780777, Test\_Loss: 0.19594475626945496  
Epoch: 25, Train\_Loss: 0.1545097976922989, Test\_Loss: 0.15629789233207703 \*  
Epoch: 25, Train\_Loss: 0.19840705394744873, Test\_Loss: 0.15863727033138275  
Epoch: 25, Train\_Loss: 0.2096989005804062, Test\_Loss: 0.17788878083229065  
Epoch: 25, Train\_Loss: 0.42960500717163086, Test\_Loss: 0.3382985293865204  
Epoch: 25, Train\_Loss: 15.199943542480469, Test\_Loss: 0.25604745745658875 \*  
Epoch: 25, Train\_Loss: 0.28291741013526917, Test\_Loss: 0.18895791471004486 \*  
Epoch: 25, Train\_Loss: 0.7029321789741516, Test\_Loss: 0.20690113306045532  
Epoch: 25, Train\_Loss: 0.9515136480331421, Test\_Loss: 0.19552727043628693 \*  
Epoch: 25, Train\_Loss: 0.18964320421218872, Test\_Loss: 0.1572289764881134 \*  
Epoch: 25, Train\_Loss: 0.5864883661270142, Test\_Loss: 0.19735080003738403  
Epoch: 25, Train\_Loss: 2.5897862911224365, Test\_Loss: 0.23076042532920837  
Epoch: 25, Train\_Loss: 3.522822856903076, Test\_Loss: 0.3899022340774536

Epoch: 25, Train\_Loss: 0.24607747793197632, Test\_Loss: 0.22830438613891602 \*

Epoch: 25, Train\_Loss: 0.5554860234260559, Test\_Loss: 0.250903457403183

Epoch: 25, Train\_Loss: 4.523388385772705, Test\_Loss: 0.17216628789901733 \*

Epoch: 25, Train\_Loss: 0.32373982667922974, Test\_Loss: 0.1945837140083313

Epoch: 25, Train\_Loss: 0.17164786159992218, Test\_Loss: 0.1828954666852951 \*

Epoch: 25, Train\_Loss: 0.17130377888679504, Test\_Loss: 0.19495224952697754

Epoch: 25, Train\_Loss: 0.22987881302833557, Test\_Loss: 0.1816607564687729 \*

Epoch: 25, Train\_Loss: 0.19451817870140076, Test\_Loss: 0.17010697722434998 \*

Epoch: 25, Train\_Loss: 0.16319434344768524, Test\_Loss: 0.18848063051700592

Epoch: 25, Train\_Loss: 0.16333474218845367, Test\_Loss: 0.2977668046951294

Epoch: 25, Train\_Loss: 0.15014611184597015, Test\_Loss: 0.5851401090621948

Epoch: 25, Train\_Loss: 0.1510220170021057, Test\_Loss: 0.28130030632019043 \*

Epoch: 25, Train\_Loss: 0.1686261147260666, Test\_Loss: 0.17880935966968536 \*

Epoch: 25, Train\_Loss: 0.1646365374326706, Test\_Loss: 0.15739671885967255 \*

Epoch: 25, Train\_Loss: 0.19429439306259155, Test\_Loss: 0.15662920475006104 \*

Epoch: 25, Train\_Loss: 0.19290608167648315, Test\_Loss: 0.157308429479599

Epoch: 25, Train\_Loss: 0.19006460905075073, Test\_Loss: 0.17985358834266663

Epoch: 25, Train\_Loss: 0.1620582789182663, Test\_Loss: 0.4856550693511963

Epoch: 25, Train\_Loss: 0.16303735971450806, Test\_Loss: 6.190290451049805

Epoch: 25, Train\_Loss: 0.16912606358528137, Test\_Loss: 0.25203627347946167 \*

Epoch: 25, Train\_Loss: 0.1527169644832611, Test\_Loss: 0.25657305121421814

Epoch: 25, Train\_Loss: 0.15276756882667542, Test\_Loss: 0.34575992822647095

Epoch: 25, Train\_Loss: 0.15010295808315277, Test\_Loss: 0.2894156575202942 \*

Epoch: 25, Train\_Loss: 0.15034009516239166, Test\_Loss: 0.28826701641082764 \*

Epoch: 25, Train\_Loss: 0.15030094981193542, Test\_Loss: 0.480161190032959

Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save copy\model.ckpt at epoch 25

Epoch: 25, Train\_Loss: 0.15051297843456268, Test\_Loss: 0.47220683097839355 \*

Epoch: 25, Train\_Loss: 0.15003041923046112, Test\_Loss: 0.25011035799980164 \*

Epoch: 25, Train\_Loss: 0.15043556690216064, Test\_Loss: 0.29877692461013794

Epoch: 25, Train\_Loss: 0.16871562600135803, Test\_Loss: 0.3516805171966553

Epoch: 25, Train\_Loss: 0.18564538657665253, Test\_Loss: 0.8213897347450256

Epoch: 25, Train\_Loss: 0.20316380262374878, Test\_Loss: 0.38031530380249023 \*

Epoch: 25, Train\_Loss: 0.18460151553153992, Test\_Loss: 0.34542539715766907 \*

Epoch: 25, Train\_Loss: 0.27984189987182617, Test\_Loss: 0.26905301213264465 \*

Epoch: 25, Train\_Loss: 3.600764036178589, Test\_Loss: 0.15791624784469604 \*

Epoch: 25, Train\_Loss: 3.5204575061798096, Test\_Loss: 0.1587834358215332

Epoch: 25, Train\_Loss: 0.1742829978466034, Test\_Loss: 0.15828509628772736 \*

Epoch: 25, Train\_Loss: 0.17599524557590485, Test\_Loss: 0.30554160475730896

Epoch: 25, Train\_Loss: 0.19411444664001465, Test\_Loss: 0.15864434838294983 \*

Epoch: 25, Train\_Loss: 0.2314678132534027, Test\_Loss: 0.2984435260295868

Epoch: 25, Train\_Loss: 0.22043484449386597, Test\_Loss: 0.1606578826904297 \*

Epoch: 25, Train\_Loss: 0.19086746871471405, Test\_Loss: 0.20219069719314575

Epoch: 25, Train\_Loss: 0.21249374747276306, Test\_Loss: 0.22966627776622772

Epoch: 25, Train\_Loss: 0.25064903497695923, Test\_Loss: 0.23375999927520752

Epoch: 25, Train\_Loss: 0.26185619831085205, Test\_Loss: 0.16261285543441772 \*

Epoch: 25, Train\_Loss: 0.17208093404769897, Test\_Loss: 0.16084259748458862 \*

Epoch: 25, Train\_Loss: 0.1671140342950821, Test\_Loss: 0.1719662994146347

Epoch: 25, Train\_Loss: 0.16145579516887665, Test\_Loss: 0.16535437107086182 \*

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Epoch: 25, Train\_Loss: 0.20544396340847015, Test\_Loss: 0.17798250913619995 \*

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Epoch: 25, Train\_Loss: 0.15273773670196533, Test\_Loss: 0.2472027987241745 \*

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Epoch: 25, Train\_Loss: 0.18882903456687927, Test\_Loss: 0.1822163611650467 \*

Epoch: 25, Train\_Loss: 0.16944333910942078, Test\_Loss: 0.18195496499538422 \*

Epoch: 25, Train\_Loss: 0.16172204911708832, Test\_Loss: 0.1850326657295227

Epoch: 25, Train\_Loss: 0.15175284445285797, Test\_Loss: 0.3525758385658264

Epoch: 25, Train\_Loss: 0.15352052450180054, Test\_Loss: 0.2730576992034912 \*

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Epoch: 25, Train\_Loss: 0.17790114879608154, Test\_Loss: 0.1846252828836441 \*  
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Epoch: 25, Train\_Loss: 0.18767964839935303, Test\_Loss: 0.1840665340423584 \*  
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Epoch: 25, Train\_Loss: 0.18641750514507294, Test\_Loss: 0.19320863485336304 \*  
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Epoch: 25, Train\_Loss: 0.32397276163101196, Test\_Loss: 0.16121992468833923 \*  
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Epoch: 25, Train\_Loss: 0.23165738582611084, Test\_Loss: 0.15753786265850067 \*  
Epoch: 25, Train\_Loss: 0.20197144150733948, Test\_Loss: 0.15626733005046844 \*  
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Epoch: 25, Train\_Loss: 0.1494576334953308, Test\_Loss: 0.16210249066352844 \*  
Epoch: 25, Train\_Loss: 0.15353207290172577, Test\_Loss: 0.15391886234283447 \*  
Epoch: 25, Train\_Loss: 0.15046285092830658, Test\_Loss: 0.15376456081867218 \*  
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Epoch: 25, Train\_Loss: 0.2490793764591217, Test\_Loss: 0.15018439292907715 \*  
Epoch: 25, Train\_Loss: 0.2582437992095947, Test\_Loss: 0.17998985946178436  
Epoch: 25, Train\_Loss: 0.161603182554245, Test\_Loss: 0.14958085119724274 \*  
Epoch: 25, Train\_Loss: 0.2611757516860962, Test\_Loss: 0.17636191844940186  
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Epoch: 25, Train\_Loss: 0.42631834745407104, Test\_Loss: 0.16445623338222504 \*  
Epoch: 25, Train\_Loss: 0.15812739729881287, Test\_Loss: 0.1520107388496399 \*  
Epoch: 25, Train\_Loss: 0.6736140847206116, Test\_Loss: 0.15498994290828705  
Epoch: 25, Train\_Loss: 2.3464956283569336, Test\_Loss: 0.15258611738681793 \*  
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Epoch: 25, Train\_Loss: 0.20767441391944885, Test\_Loss: 0.18923026323318481  
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Epoch: 25, Train\_Loss: 0.15115882456302643, Test\_Loss: 2.563349485397339 \*  
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Epoch: 25, Train\_Loss: 0.21804356575012207, Test\_Loss: 0.17473474144935608 \*  
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Epoch: 26, Train\_Loss: 0.20841661095619202, Test\_Loss: 0.15968675911426544 \*

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Epoch: 26, Train\_Loss: 0.1863185465335846, Test\_Loss: 0.17515681684017181

Epoch: 26, Train\_Loss: 0.48048025369644165, Test\_Loss: 0.1933208554983139

Epoch: 26, Train\_Loss: 0.6179265975952148, Test\_Loss: 0.23200355470180511

Epoch: 26, Train\_Loss: 0.3192421495914459, Test\_Loss: 0.177517831325531 \*

Epoch: 26, Train\_Loss: 0.2760746479034424, Test\_Loss: 0.18911780416965485

Epoch: 26, Train\_Loss: 0.6899619102478027, Test\_Loss: 0.1737050712108612 \*

Epoch: 26, Train\_Loss: 0.4504907727241516, Test\_Loss: 0.22833535075187683

Epoch: 26, Train\_Loss: 0.1588279753923416, Test\_Loss: 0.21202895045280457 \*

Epoch: 26, Train\_Loss: 0.14920084178447723, Test\_Loss: 0.25888198614120483

Epoch: 26, Train\_Loss: 0.4432646632194519, Test\_Loss: 0.1935059130191803 \*

Epoch: 26, Train\_Loss: 0.4608820676803589, Test\_Loss: 0.2151048183441162

Epoch: 26, Train\_Loss: 0.589290201663971, Test\_Loss: 0.2909189462661743

Epoch: 26, Train\_Loss: 0.15541118383407593, Test\_Loss: 0.29027795791625977 \*

Epoch: 26, Train\_Loss: 0.16885429620742798, Test\_Loss: 0.33762866258621216

Epoch: 26, Train\_Loss: 0.21329522132873535, Test\_Loss: 0.1690974086523056 \*

Epoch: 26, Train\_Loss: 0.29684728384017944, Test\_Loss: 0.16334189474582672 \*

Epoch: 26, Train\_Loss: 0.1599796712398529, Test\_Loss: 0.1613861620426178 \*

Epoch: 26, Train\_Loss: 0.2151479721069336, Test\_Loss: 0.1900579184293747

Epoch: 26, Train\_Loss: 0.1746048480272293, Test\_Loss: 0.342960387468338

Epoch: 26, Train\_Loss: 0.22107020020484924, Test\_Loss: 0.23993852734565735 \*

Epoch: 26, Train\_Loss: 0.28648805618286133, Test\_Loss: 0.30529093742370605

Epoch: 26, Train\_Loss: 0.25995075702667236, Test\_Loss: 0.2058933973312378 \*

Epoch: 26, Train\_Loss: 0.18436762690544128, Test\_Loss: 0.20837914943695068

Epoch: 26, Train\_Loss: 0.18554633855819702, Test\_Loss: 0.16773726046085358 \*

Epoch: 26, Train\_Loss: 0.2633504271507263, Test\_Loss: 0.17257988452911377

Epoch: 26, Train\_Loss: 0.1804293692111969, Test\_Loss: 0.518959641456604

Epoch: 26, Train\_Loss: 0.18109862506389618, Test\_Loss: 0.19899970293045044 \*

Epoch: 26, Train\_Loss: 0.27889350056648254, Test\_Loss: 0.49368569254875183

Epoch: 26, Train\_Loss: 0.18705344200134277, Test\_Loss: 0.22104588150978088 \*

Epoch: 26, Train\_Loss: 0.18544644117355347, Test\_Loss: 0.1778343766927719 \*

Epoch: 26, Train\_Loss: 0.2101231813430786, Test\_Loss: 0.16055253148078918 \*

Epoch: 26, Train\_Loss: 0.16608943045139313, Test\_Loss: 0.1515260487794876 \*

Epoch: 26, Train\_Loss: 0.15710283815860748, Test\_Loss: 0.2448175549507141

Epoch: 26, Train\_Loss: 0.14800173044204712, Test\_Loss: 0.16264285147190094 \*

Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save copy\model.ckpt at epoch 26

Epoch: 26, Train\_Loss: 0.15144187211990356, Test\_Loss: 0.17249594628810883

Epoch: 26, Train\_Loss: 0.1512402445077896, Test\_Loss: 0.16775009036064148 \*

Epoch: 26, Train\_Loss: 0.16068488359451294, Test\_Loss: 0.3380255103111267

Epoch: 26, Train\_Loss: 0.1578916609287262, Test\_Loss: 0.4946541488170624

Epoch: 26, Train\_Loss: 0.1561749279499054, Test\_Loss: 0.26015985012054443 \*

Epoch: 26, Train\_Loss: 0.15665403008460999, Test\_Loss: 0.4220693111419678

Epoch: 26, Train\_Loss: 0.37064677476882935, Test\_Loss: 0.16738757491111755 \*

Epoch: 26, Train\_Loss: 0.4172307550907135, Test\_Loss: 0.16477909684181213 \*

Epoch: 26, Train\_Loss: 0.15941911935806274, Test\_Loss: 0.16320979595184326 \*

Epoch: 26, Train\_Loss: 0.20454144477844238, Test\_Loss: 0.16146916151046753 \*

Epoch: 26, Train\_Loss: 0.19008639454841614, Test\_Loss: 0.2392987757921219

Epoch: 26, Train\_Loss: 0.18840602040290833, Test\_Loss: 4.23225736618042

Epoch: 26, Train\_Loss: 0.3496370315551758, Test\_Loss: 1.6633665561676025 \*

Epoch: 26, Train\_Loss: 0.1906375288963318, Test\_Loss: 0.1548122763633728 \*

Epoch: 26, Train\_Loss: 0.5077780485153198, Test\_Loss: 0.16286572813987732

Epoch: 26, Train\_Loss: 0.21110354363918304, Test\_Loss: 0.1561376303434372 \*

Epoch: 26, Train\_Loss: 0.26775434613227844, Test\_Loss: 0.15111030638217926 \*

Epoch: 26, Train\_Loss: 0.15941649675369263, Test\_Loss: 0.1631954312324524

Epoch: 26, Train\_Loss: 0.15844713151454926, Test\_Loss: 0.1778002232313156

Epoch: 26, Train\_Loss: 0.28418007493019104, Test\_Loss: 0.16251839697360992 \*

Epoch: 26, Train\_Loss: 0.6104403734207153, Test\_Loss: 0.15071846544742584 \*

Epoch: 26, Train\_Loss: 0.5569360852241516, Test\_Loss: 0.1559080332517624

Epoch: 26, Train\_Loss: 0.16223669052124023, Test\_Loss: 0.15712913870811462

Epoch: 26, Train\_Loss: 0.16862992942333221, Test\_Loss: 0.18917778134346008  
Epoch: 26, Train\_Loss: 0.15475107729434967, Test\_Loss: 0.16666123270988464 \*  
Epoch: 26, Train\_Loss: 0.33401691913604736, Test\_Loss: 0.1828664392232895  
Epoch: 26, Train\_Loss: 0.4545219838619232, Test\_Loss: 0.15166352689266205 \*  
Epoch: 26, Train\_Loss: 0.154889777302742, Test\_Loss: 0.15232141315937042  
Epoch: 26, Train\_Loss: 0.3230177164077759, Test\_Loss: 0.1652737259864807  
Epoch: 26, Train\_Loss: 0.1658777892589569, Test\_Loss: 0.16468775272369385 \*  
Epoch: 26, Train\_Loss: 0.1720823347568512, Test\_Loss: 0.14924149215221405 \*  
Epoch: 26, Train\_Loss: 0.20576460659503937, Test\_Loss: 0.15346230566501617  
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Epoch: 26, Train\_Loss: 0.2286836802959442, Test\_Loss: 0.1512746661901474 \*  
Epoch: 26, Train\_Loss: 0.2102535367012024, Test\_Loss: 0.15063589811325073 \*  
Epoch: 26, Train\_Loss: 0.1674070954322815, Test\_Loss: 0.1624302715063095  
Epoch: 26, Train\_Loss: 0.2238846719264984, Test\_Loss: 0.15193593502044678 \*  
Epoch: 26, Train\_Loss: 0.19073733687400818, Test\_Loss: 0.15031911432743073 \*  
Epoch: 26, Train\_Loss: 0.1731434464454651, Test\_Loss: 0.17948104441165924  
Epoch: 26, Train\_Loss: 0.15738822519779205, Test\_Loss: 0.17292293906211853 \*  
Epoch: 26, Train\_Loss: 0.16212224960327148, Test\_Loss: 0.14857229590415955 \*  
Epoch: 26, Train\_Loss: 0.2124926596879959, Test\_Loss: 0.22618326544761658  
Epoch: 26, Train\_Loss: 0.2957965135574341, Test\_Loss: 0.254242479801178  
Epoch: 26, Train\_Loss: 0.33785516023635864, Test\_Loss: 5.136780261993408  
Epoch: 26, Train\_Loss: 0.6115305423736572, Test\_Loss: 0.3116586208343506 \*  
Epoch: 26, Train\_Loss: 0.49263542890548706, Test\_Loss: 0.1570909023284912 \*  
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Epoch: 26, Train\_Loss: 0.17187397181987762, Test\_Loss: 0.15472963452339172 \*  
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Epoch: 26, Train\_Loss: 0.15762285888195038, Test\_Loss: 0.19286100566387177  
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Epoch: 26, Train\_Loss: 0.4695596396923065, Test\_Loss: 0.14780569076538086 \*  
Epoch: 26, Train\_Loss: 0.5412391424179077, Test\_Loss: 0.1736045479774475  
Epoch: 26, Train\_Loss: 0.9587137699127197, Test\_Loss: 0.17236104607582092 \*  
Epoch: 26, Train\_Loss: 1.0742805004119873, Test\_Loss: 0.17695637047290802  
Epoch: 26, Train\_Loss: 0.2820410132408142, Test\_Loss: 0.19570286571979523  
Epoch: 26, Train\_Loss: 0.3340472877025604, Test\_Loss: 0.17756441235542297 \*  
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Epoch: 26, Train\_Loss: 0.2142476737499237, Test\_Loss: 0.2004595696926117 \*  
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Epoch: 26, Train\_Loss: 0.7356753945350647, Test\_Loss: 0.24921508133411407  
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Epoch: 26, Train\_Loss: 0.1831609606742859, Test\_Loss: 0.28355520963668823  
Epoch: 26, Train\_Loss: 0.3481771647930145, Test\_Loss: 0.328728049993515  
Epoch: 26, Train\_Loss: 0.31375768780708313, Test\_Loss: 0.2856605052947998 \*  
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Epoch: 26, Train\_Loss: 0.353118360042572, Test\_Loss: 0.2526654005050659 \*  
Epoch: 26, Train\_Loss: 0.15424659848213196, Test\_Loss: 0.20317897200584412 \*  
Epoch: 26, Train\_Loss: 0.16400785744190216, Test\_Loss: 0.19609886407852173 \*  
Epoch: 26, Train\_Loss: 0.1497650295495987, Test\_Loss: 0.16667869687080383 \*  
Epoch: 26, Train\_Loss: 0.1764746457338333, Test\_Loss: 0.1530577689409256 \*  
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Epoch: 26, Train\_Loss: 0.2451213002204895, Test\_Loss: 0.31649065017700195  
Epoch: 26, Train\_Loss: 14.908635139465332, Test\_Loss: 0.2282244712114334 \*  
Epoch: 26, Train\_Loss: 0.31304532289505005, Test\_Loss: 0.22869527339935303  
Epoch: 26, Train\_Loss: 1.1542551517486572, Test\_Loss: 0.18998250365257263 \*  
Epoch: 26, Train\_Loss: 1.0079236030578613, Test\_Loss: 0.19049116969108582  
Epoch: 26, Train\_Loss: 0.19619593024253845, Test\_Loss: 0.1589997559785843 \*  
Epoch: 26, Train\_Loss: 0.2545316815376282, Test\_Loss: 0.19800786674022675  
Epoch: 26, Train\_Loss: 2.0895304679870605, Test\_Loss: 0.3794323205947876  
Epoch: 26, Train\_Loss: 4.404035568237305, Test\_Loss: 0.2929409146308899 \*  
Epoch: 26, Train\_Loss: 0.23643186688423157, Test\_Loss: 0.33352282643318176  
Epoch: 26, Train\_Loss: 0.37793171405792236, Test\_Loss: 0.19158795475959778 \*  
Epoch: 26, Train\_Loss: 4.076794147491455, Test\_Loss: 0.17949455976486206 \*  
Epoch: 26, Train\_Loss: 0.3235676884651184, Test\_Loss: 0.22305262088775635  
Epoch: 26, Train\_Loss: 0.25721558928489685, Test\_Loss: 0.19237133860588074 \*  
Epoch: 26, Train\_Loss: 0.1590886265039444, Test\_Loss: 0.25952088832855225  
Epoch: 26, Train\_Loss: 0.19313174486160278, Test\_Loss: 0.16761550307273865 \*  
Epoch: 26, Train\_Loss: 0.1980689913034439, Test\_Loss: 0.1773950457572937  
Epoch: 26, Train\_Loss: 0.14799141883850098, Test\_Loss: 0.19091874361038208  
Epoch: 26, Train\_Loss: 0.16662733256816864, Test\_Loss: 0.30201074481010437  
Epoch: 26, Train\_Loss: 0.14680278301239014, Test\_Loss: 1.0088934898376465  
Epoch: 26, Train\_Loss: 0.14742939174175262, Test\_Loss: 0.2631090581417084 \*  
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Epoch: 26, Train\_Loss: 0.1610887348651886, Test\_Loss: 0.15484845638275146 \*  
Epoch: 26, Train\_Loss: 0.17332829535007477, Test\_Loss: 0.154841348528862 \*  
Epoch: 26, Train\_Loss: 0.2010461986064911, Test\_Loss: 0.1550874263048172

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Epoch: 26, Train\_Loss: 0.15750843286514282, Test\_Loss: 0.15540990233421326  
Epoch: 26, Train\_Loss: 0.1590777039527893, Test\_Loss: 0.19870969653129578  
Epoch: 26, Train\_Loss: 0.16444925963878632, Test\_Loss: 6.260705947875977  
Epoch: 26, Train\_Loss: 0.15155859291553497, Test\_Loss: 0.8704770803451538 \*  
Epoch: 26, Train\_Loss: 0.15886470675468445, Test\_Loss: 0.4270462393760681 \*  
Epoch: 26, Train\_Loss: 0.1491418033838272, Test\_Loss: 0.4508329927921295  
Epoch: 26, Train\_Loss: 0.14649811387062073, Test\_Loss: 0.5549936890602112  
Epoch: 26, Train\_Loss: 0.14642804861068726, Test\_Loss: 0.35339540243148804 \*  
Epoch: 26, Train\_Loss: 0.14708499610424042, Test\_Loss: 0.8255711793899536  
Epoch: 26, Train\_Loss: 0.146648570895195, Test\_Loss: 0.8083525896072388 \*  
Epoch: 26, Train\_Loss: 0.14628954231739044, Test\_Loss: 0.7049155235290527 \*  
Epoch: 26, Train\_Loss: 0.14618952572345734, Test\_Loss: 0.6469174027442932 \*  
Epoch: 26, Train\_Loss: 0.153323695063591, Test\_Loss: 0.513538658618927 \*  
Epoch: 26, Train\_Loss: 0.17440830171108246, Test\_Loss: 0.8211418986320496  
Epoch: 26, Train\_Loss: 0.1779206246137619, Test\_Loss: 1.0606188774108887  
Epoch: 26, Train\_Loss: 0.21235918998718262, Test\_Loss: 0.5011155605316162 \*  
Epoch: 26, Train\_Loss: 0.26559823751449585, Test\_Loss: 0.45416539907455444 \*  
Epoch: 26, Train\_Loss: 1.3539915084838867, Test\_Loss: 0.1599092036485672 \*  
Epoch: 26, Train\_Loss: 4.584869861602783, Test\_Loss: 0.16158810257911682  
Epoch: 26, Train\_Loss: 0.2177332043647766, Test\_Loss: 0.1599770337343216 \*  
Epoch: 26, Train\_Loss: 0.22122032940387726, Test\_Loss: 0.34452325105667114  
Epoch: 26, Train\_Loss: 0.2055816352367401, Test\_Loss: 0.23647046089172363 \*  
Epoch: 26, Train\_Loss: 0.3378528356552124, Test\_Loss: 0.20482978224754333 \*  
Epoch: 26, Train\_Loss: 0.2550352215766907, Test\_Loss: 0.28569933772087097  
Epoch: 26, Train\_Loss: 0.21581462025642395, Test\_Loss: 0.26011592149734497 \*  
Epoch: 26, Train\_Loss: 0.19481325149536133, Test\_Loss: 0.21036577224731445 \*  
Epoch: 26, Train\_Loss: 0.22370798885822296, Test\_Loss: 0.2964093089103699  
Epoch: 26, Train\_Loss: 0.23746134340763092, Test\_Loss: 0.16081614792346954 \*  
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Epoch: 26, Train\_Loss: 0.15779289603233337, Test\_Loss: 0.17840665578842163  
Epoch: 26, Train\_Loss: 0.17155596613883972, Test\_Loss: 0.15894095599651337 \*  
Epoch: 26, Train\_Loss: 0.15557166934013367, Test\_Loss: 0.1511811763048172 \*  
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Epoch: 26, Train\_Loss: 0.14714141190052032, Test\_Loss: 0.16733139753341675 \*  
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Epoch: 26, Train\_Loss: 1.1774622201919556, Test\_Loss: 0.17730289697647095 \*  
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Epoch: 26, Train\_Loss: 0.15464690327644348, Test\_Loss: 0.15319308638572693 \*  
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Epoch: 26, Train\_Loss: 0.14791186153888702, Test\_Loss: 0.17596550285816193 \*  
Epoch: 26, Train\_Loss: 0.15064875781536102, Test\_Loss: 0.25078803300857544  
Epoch: 26, Train\_Loss: 0.16190265119075775, Test\_Loss: 0.17647399008274078 \*  
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Epoch: 26, Train\_Loss: 0.14746859669685364, Test\_Loss: 0.25635480880737305  
Epoch: 26, Train\_Loss: 0.14694923162460327, Test\_Loss: 0.22658102214336395 \*  
Epoch: 26, Train\_Loss: 0.1492013931274414, Test\_Loss: 0.17965617775917053 \*  
Epoch: 26, Train\_Loss: 0.1638135462999344, Test\_Loss: 0.1750849336385727 \*  
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Epoch: 26, Train\_Loss: 0.14878034591674805, Test\_Loss: 0.17869193851947784 \*  
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Epoch: 26, Train\_Loss: 0.14950378239154816, Test\_Loss: 0.16371196508407593 \*  
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Epoch: 27, Train\_Loss: 0.2583200931549072, Test\_Loss: 0.21662646532058716 \*  
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Epoch: 27, Train\_Loss: 0.3958376348018646, Test\_Loss: 0.2312692254781723 \*  
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Epoch: 27, Train\_Loss: 0.1549758017063141, Test\_Loss: 0.18130230903625488 \*  
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Epoch: 27, Train\_Loss: 0.15490135550498962, Test\_Loss: 0.17588382959365845  
Epoch: 27, Train\_Loss: 0.22196437418460846, Test\_Loss: 5.439709663391113  
Epoch: 27, Train\_Loss: 0.1485997438430786, Test\_Loss: 0.4483264684677124 \*  
Epoch: 27, Train\_Loss: 0.19200599193572998, Test\_Loss: 0.15637235343456268 \*  
Epoch: 27, Train\_Loss: 0.16081851720809937, Test\_Loss: 0.15381690859794617 \*  
Epoch: 27, Train\_Loss: 0.1683104932308197, Test\_Loss: 0.14766380190849304 \*  
Epoch: 27, Train\_Loss: 0.24260717630386353, Test\_Loss: 0.1488085240125656  
Epoch: 27, Train\_Loss: 0.2871881127357483, Test\_Loss: 0.15146762132644653  
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Epoch: 27, Train\_Loss: 0.14640316367149353, Test\_Loss: 0.14477314054965973 \*  
Epoch: 27, Train\_Loss: 0.1740904152393341, Test\_Loss: 0.15200185775756836  
Epoch: 27, Train\_Loss: 0.14351703226566315, Test\_Loss: 0.14657455682754517 \*  
Epoch: 27, Train\_Loss: 0.14379729330539703, Test\_Loss: 0.14720270037651062  
Epoch: 27, Train\_Loss: 0.1473027914762497, Test\_Loss: 0.16562004387378693  
Epoch: 27, Train\_Loss: 0.14597639441490173, Test\_Loss: 0.15337173640727997 \*  
Epoch: 27, Train\_Loss: 0.14405614137649536, Test\_Loss: 0.17004016041755676  
Epoch: 27, Train\_Loss: 0.15097904205322266, Test\_Loss: 0.17342177033424377  
Epoch: 27, Train\_Loss: 0.14998918771743774, Test\_Loss: 0.14415891468524933 \*  
Epoch: 27, Train\_Loss: 0.14678457379341125, Test\_Loss: 0.14741261303424835  
Epoch: 27, Train\_Loss: 0.14872518181800842, Test\_Loss: 0.1447145640850067 \*  
Epoch: 27, Train\_Loss: 0.14750176668167114, Test\_Loss: 0.15192118287086487  
Epoch: 27, Train\_Loss: 0.1439378261566162, Test\_Loss: 0.14512614905834198 \*  
Epoch: 27, Train\_Loss: 0.14261549711227417, Test\_Loss: 0.15134623646736145  
Epoch: 27, Train\_Loss: 0.15488868951797485, Test\_Loss: 0.145420104265213 \*  
Epoch: 27, Train\_Loss: 0.1473298966884613, Test\_Loss: 0.14658987522125244  
Epoch: 27, Train\_Loss: 0.16637535393238068, Test\_Loss: 0.14752651751041412  
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Epoch: 27, Train\_Loss: 0.14760923385620117, Test\_Loss: 0.14504221081733704 \*  
Epoch: 27, Train\_Loss: 0.15179792046546936, Test\_Loss: 0.14653925597667694  
Epoch: 27, Train\_Loss: 0.1654852330684662, Test\_Loss: 0.15215657651424408  
Epoch: 27, Train\_Loss: 0.15082091093063354, Test\_Loss: 0.14431379735469818 \*  
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Epoch: 27, Train\_Loss: 0.1430765688419342, Test\_Loss: 0.23838815093040466  
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Epoch: 27, Train\_Loss: 0.16617551445960999, Test\_Loss: 0.21131443977355957 \*  
Epoch: 27, Train\_Loss: 1.9052892923355103, Test\_Loss: 0.1440984159708023 \*  
Epoch: 27, Train\_Loss: 3.62795090675354, Test\_Loss: 0.1675148904323578  
Epoch: 27, Train\_Loss: 0.17887353897094727, Test\_Loss: 0.16170750558376312 \*  
Epoch: 27, Train\_Loss: 0.15815700590610504, Test\_Loss: 0.15580809116363525 \*  
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Epoch: 27, Train\_Loss: 0.17256544530391693, Test\_Loss: 0.16515962779521942 \*  
Epoch: 27, Train\_Loss: 0.1520088165998459, Test\_Loss: 0.1486274003982544 \*  
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Epoch: 27, Train\_Loss: 0.20916962623596191, Test\_Loss: 0.1549619436264038 \*  
Epoch: 27, Train\_Loss: 0.17099127173423767, Test\_Loss: 0.15200693905353546 \*  
Epoch: 27, Train\_Loss: 0.15401524305343628, Test\_Loss: 0.19162222743034363  
Epoch: 27, Train\_Loss: 0.5110518932342529, Test\_Loss: 0.1776600033044815 \*  
Epoch: 27, Train\_Loss: 0.318008691072464, Test\_Loss: 0.21970152854919434  
Epoch: 27, Train\_Loss: 0.7304208278656006, Test\_Loss: 0.16923271119594574 \*  
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Epoch: 27, Train\_Loss: 0.41455864906311035, Test\_Loss: 0.1665325164794922 \*  
Epoch: 27, Train\_Loss: 0.5828466415405273, Test\_Loss: 0.16312965750694275 \*  
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Epoch: 27, Train\_Loss: 0.14472071826457977, Test\_Loss: 0.23378834128379822 \*  
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Epoch: 27, Train\_Loss: 0.5918710231781006, Test\_Loss: 0.24289648234844208 \*  
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Epoch: 27, Train\_Loss: 0.35730576515191754, Test\_Loss: 0.20635540783405304 \*  
Epoch: 27, Train\_Loss: 0.559100866317749, Test\_Loss: 0.21899822354316711  
Epoch: 27, Train\_Loss: 0.14815954864025116, Test\_Loss: 0.23246848583221436  
Epoch: 27, Train\_Loss: 0.15287430584430695, Test\_Loss: 0.1551138460636139 \*  
Epoch: 27, Train\_Loss: 0.39968663454055786, Test\_Loss: 0.15713909268379211  
Epoch: 27, Train\_Loss: 0.3620055019855499, Test\_Loss: 0.1497156322002411 \*  
Epoch: 27, Train\_Loss: 0.23523978888988495, Test\_Loss: 0.18500708043575287  
Epoch: 27, Train\_Loss: 0.20478931069374084, Test\_Loss: 0.17261746525764465 \*  
Epoch: 27, Train\_Loss: 0.18213225901126862, Test\_Loss: 0.396968275308609  
Epoch: 27, Train\_Loss: 0.20388218760490417, Test\_Loss: 0.296392560005188 \*  
Epoch: 27, Train\_Loss: 0.26242440938949585, Test\_Loss: 0.19565510749816895 \*  
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Epoch: 27, Train\_Loss: 0.2593402862548828, Test\_Loss: 0.1483624279499054 \*  
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Epoch: 27, Train\_Loss: 0.32505732774734497, Test\_Loss: 0.20413850247859955 \*  
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Epoch: 27, Train\_Loss: 0.18347840011119843, Test\_Loss: 0.15384933352470398 \*  
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Epoch: 27, Train\_Loss: 0.14906418323516846, Test\_Loss: 0.16118288040161133 \*  
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Epoch: 27, Train\_Loss: 0.15094077587127686, Test\_Loss: 0.413216233253479 \*  
Epoch: 27, Train\_Loss: 0.2086118906736374, Test\_Loss: 0.24335607886314392 \*  
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Epoch: 27, Train\_Loss: 0.1747162938117981, Test\_Loss: 0.25072988867759705  
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Epoch: 27, Train\_Loss: 0.19058983027935028, Test\_Loss: 0.14607076346874237 \*  
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Epoch: 27, Train\_Loss: 0.19247041642665863, Test\_Loss: 0.16326910257339478 \*  
Epoch: 27, Train\_Loss: 0.5146636366844177, Test\_Loss: 0.1566440761089325 \*  
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Epoch: 27, Train\_Loss: 0.156111940741539, Test\_Loss: 0.15807507932186127 \*  
Epoch: 27, Train\_Loss: 0.3613550066947937, Test\_Loss: 0.19190622866153717  
Epoch: 27, Train\_Loss: 0.1706700623035431, Test\_Loss: 0.15767474472522736 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
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Epoch: 27, Train\_Loss: 0.2054862380027771, Test\_Loss: 0.1518782079219818 \*  
Epoch: 27, Train\_Loss: 0.2771494388580322, Test\_Loss: 0.17288249731063843  
Epoch: 27, Train\_Loss: 0.16855566203594208, Test\_Loss: 0.15835992991924286 \*  
Epoch: 27, Train\_Loss: 0.17477883398532867, Test\_Loss: 0.14604467153549194 \*  
Epoch: 27, Train\_Loss: 0.22975127398967743, Test\_Loss: 0.18549887835979462  
Epoch: 27, Train\_Loss: 0.28155189752578735, Test\_Loss: 0.1460350602865219 \*  
Epoch: 27, Train\_Loss: 0.1673808991909027, Test\_Loss: 0.16374057531356812  
Epoch: 27, Train\_Loss: 0.20659276843070984, Test\_Loss: 0.15305545926094055 \*  
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Epoch: 27, Train\_Loss: 0.2120307981967926, Test\_Loss: 0.14719700813293457 \*  
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Epoch: 27, Train\_Loss: 0.16038784384727478, Test\_Loss: 0.1700962781906128  
Epoch: 27, Train\_Loss: 0.147075355052948, Test\_Loss: 0.15250426530838013 \*  
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Epoch: 27, Train\_Loss: 0.4334666132926941, Test\_Loss: 0.24618521332740784  
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Epoch: 27, Train\_Loss: 0.5235190987586975, Test\_Loss: 2.930633544921875  
Epoch: 27, Train\_Loss: 0.4311359226703644, Test\_Loss: 0.17241886258125305 \*  
Epoch: 27, Train\_Loss: 0.3998834192752838, Test\_Loss: 0.152443990111351 \*  
Epoch: 27, Train\_Loss: 0.2129301130771637, Test\_Loss: 0.16404573619365692  
Epoch: 27, Train\_Loss: 0.2044181227684021, Test\_Loss: 0.1627092808485031 \*  
Epoch: 27, Train\_Loss: 0.1543901115655899, Test\_Loss: 0.15976686775684357 \*  
Epoch: 27, Train\_Loss: 0.15031114220619202, Test\_Loss: 0.1882609724998474  
Epoch: 27, Train\_Loss: 0.18018700182437897, Test\_Loss: 0.1850079745054245 \*  
Epoch: 27, Train\_Loss: 0.20515500500500505, Test\_Loss: 0.14713300500500505 \*



Epoch: 21, Train\_Loss: 0.38515520095825195, Test\_Loss: 0.1411398583889008 \*

Epoch: 27, Train\_Loss: 0.40781253576278687, Test\_Loss: 0.17044579982757568

Epoch: 27, Train\_Loss: 0.5575830936431885, Test\_Loss: 0.17213281989097595

Epoch: 27, Train\_Loss: 0.761600136756897, Test\_Loss: 0.18714848160743713

Epoch: 27, Train\_Loss: 0.49790841341018677, Test\_Loss: 0.1522388458251953 \*

Epoch: 27, Train\_Loss: 0.38449305295944214, Test\_Loss: 0.2580704391002655

Epoch: 27, Train\_Loss: 0.1539042741060257, Test\_Loss: 0.21607695519924164 \*

Epoch: 27, Train\_Loss: 0.15070785582065582, Test\_Loss: 0.21841977536678314

Epoch: 27, Train\_Loss: 0.3566124439239502, Test\_Loss: 0.15932127833366394 \*

Epoch: 27, Train\_Loss: 0.3233462870121002, Test\_Loss: 0.1990806609392166

Epoch: 27, Train\_Loss: 0.38490310311317444, Test\_Loss: 0.17520269751548767 \*

Epoch: 27, Train\_Loss: 0.1838730126619339, Test\_Loss: 0.2429260015487671

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Epoch: 27, Train\_Loss: 0.4114920198917389, Test\_Loss: 0.30106571316719055 \*

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Epoch: 27, Train\_Loss: 0.15002253651618958, Test\_Loss: 0.2890385687351227 \*

Epoch: 27, Train\_Loss: 0.14856183528900146, Test\_Loss: 0.15682412683963776 \*

Epoch: 27, Train\_Loss: 0.160992830991745, Test\_Loss: 0.17149466276168823

Epoch: 27, Train\_Loss: 0.14817160367965698, Test\_Loss: 0.14253585040569305 \*

Epoch: 27, Train\_Loss: 0.16569718718528748, Test\_Loss: 0.15876498818397522

Epoch: 27, Train\_Loss: 0.21477992832660675, Test\_Loss: 0.18052658438682556

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Epoch: 27, Train\_Loss: 9.199479103088379, Test\_Loss: 0.23666167259216309 \*

Epoch: 27, Train\_Loss: 0.6839389204978943, Test\_Loss: 0.16250118613243103 \*

Epoch: 27, Train\_Loss: 0.5046705603599548, Test\_Loss: 0.2450939565896988

Epoch: 27, Train\_Loss: 0.4660552740097046, Test\_Loss: 0.2077048420906067 \*

Epoch: 27, Train\_Loss: 0.1888679414987564, Test\_Loss: 0.15334489941596985 \*

Epoch: 28, Train\_Loss: 0.50370854139328, Test\_Loss: 0.24540835618972778 \*

Epoch: 28, Train\_Loss: 3.3178586959838867, Test\_Loss: 0.27249449491500854

Epoch: 28, Train\_Loss: 1.4289542436599731, Test\_Loss: 0.4642801880836487

Epoch: 28, Train\_Loss: 0.25434479117393494, Test\_Loss: 0.21520692110061646 \*

Epoch: 28, Train\_Loss: 2.292079448699951, Test\_Loss: 0.21602007746696472

Epoch: 28, Train\_Loss: 2.718966245651245, Test\_Loss: 0.19904382526874542 \*

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Epoch: 28, Train\_Loss: 0.15034528076648712, Test\_Loss: 0.22038094699382782

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Epoch: 28, Train\_Loss: 0.21008405089378357, Test\_Loss: 0.19450265169143677

Epoch: 28, Train\_Loss: 0.15802061557769775, Test\_Loss: 0.15683823823928833 \*

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Epoch: 28, Train\_Loss: 0.1413029432296753, Test\_Loss: 0.5465752482414246 \*

Epoch: 28, Train\_Loss: 0.1434529721736908, Test\_Loss: 0.2586109936237335 \*

Epoch: 28, Train\_Loss: 0.15722395479679108, Test\_Loss: 0.15385185182094574 \*

Epoch: 28, Train\_Loss: 0.1597428023815155, Test\_Loss: 0.15670587122440338

Epoch: 28, Train\_Loss: 0.198618084192276, Test\_Loss: 0.15736564993858337

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Epoch: 28, Train\_Loss: 0.14313611388206482, Test\_Loss: 0.43458425998687744

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Epoch: 28, Train\_Loss: 0.14194881916046143, Test\_Loss: 0.8690105676651001

Epoch: 28, Train\_Loss: 0.14128819108009338, Test\_Loss: 0.8222616910934448 \*

Epoch: 28, Train\_Loss: 0.14092238247394562, Test\_Loss: 0.6652127504348755 \*

Epoch: 28, Train\_Loss: 0.14767517149448395, Test\_Loss: 0.966029167175293

Epoch: 28, Train\_Loss: 0.16176097095012665, Test\_Loss: 0.5364401936531067 \*

Epoch: 28, Train\_Loss: 0.16515026986598969, Test\_Loss: 1.3690259456634521

Epoch: 28, Train\_Loss: 0.2436220943927765, Test\_Loss: 0.563800036907196 \*

Epoch: 28, Train\_Loss: 0.16905361413955688, Test\_Loss: 0.5953800082206726

Epoch: 28, Train\_Loss: 0.279772013425827, Test\_Loss: 0.4416896402835846 \*

Epoch: 28, Train\_Loss: 5.153905391693115, Test\_Loss: 0.1611618548631668 \*

Epoch: 28, Train\_Loss: 0.6605756878852844, Test\_Loss: 0.15277110040187836 \*

Epoch: 28, Train\_Loss: 0.15203742682933807, Test\_Loss: 0.14443188905715942 \*

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Epoch: 28, Train\_Loss: 0.26337960362434387, Test\_Loss: 0.3447102904319763

Epoch: 28, Train\_Loss: 0.25514906644821167, Test\_Loss: 0.21432054042816162 \*

Epoch: 28, Train\_Loss: 0.21712630987167358, Test\_Loss: 0.161612868309021 \*

Epoch: 28, Train\_Loss: 0.14812636375427246, Test\_Loss: 0.16370661556720734  
Epoch: 28, Train\_Loss: 0.17616313695907593, Test\_Loss: 0.18106713891029358  
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Epoch: 28, Train\_Loss: 0.2218685895204544, Test\_Loss: 2.8327157497406006 \*  
Epoch: 28, Train\_Loss: 0.18867692351341248, Test\_Loss: 0.1730498969554901 \*  
Epoch: 28, Train\_Loss: 0.1957779973745346, Test\_Loss: 0.24380463361740112  
Epoch: 28, Train\_Loss: 0.23644568026065826, Test\_Loss: 0.3258267641067505  
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Epoch: 28, Train\_Loss: 0.154054194688797, Test\_Loss: 0.16966308653354645 \*  
Epoch: 28, Train\_Loss: 0.1462472826242447, Test\_Loss: 0.2324800044298172  
Epoch: 28, Train\_Loss: 0.268609881401062, Test\_Loss: 0.25028443336486816  
Epoch: 28, Train\_Loss: 3.0316622257232666, Test\_Loss: 0.14835327863693237 \*  
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Epoch: 28, Train\_Loss: 0.15607759356498718, Test\_Loss: 0.25915825366973877 \*  
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Epoch: 28, Train\_Loss: 0.1626996546983719, Test\_Loss: 0.18787699937820435 \*  
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Epoch: 28, Train\_Loss: 0.17356687784194946, Test\_Loss: 0.15074658393859863 \*  
Epoch: 28, Train\_Loss: 3.7354960441589355, Test\_Loss: 0.15693001449108124  
Epoch: 28, Train\_Loss: 0.38900327682495117, Test\_Loss: 0.15160788595676422 \*  
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Epoch: 28, Train\_Loss: 0.4315972328186035, Test\_Loss: 0.2547050416469574  
Epoch: 28, Train\_Loss: 0.1563103199005127, Test\_Loss: 0.2527656853199005 \*  
Epoch: 28, Train\_Loss: 0.18475158512592316, Test\_Loss: 0.2385772168636322 \*  
Epoch: 28, Train\_Loss: 0.1941271871328354, Test\_Loss: 0.2521459460258484  
Epoch: 28, Train\_Loss: 0.19148163497447968, Test\_Loss: 4.740541458129883  
Epoch: 28, Train\_Loss: 0.17779764533042908, Test\_Loss: 0.8097611665725708 \*  
Epoch: 28, Train\_Loss: 0.1831098198890686, Test\_Loss: 0.15061302483081818 \*  
Epoch: 28, Train\_Loss: 0.3356925845146179, Test\_Loss: 0.15507422387599945  
Epoch: 28, Train\_Loss: 0.2029246985912323, Test\_Loss: 0.14507876336574554 \*  
Epoch: 28, Train\_Loss: 0.25056830048561096, Test\_Loss: 0.1483151763677597  
Epoch: 28, Train\_Loss: 0.15491613745689392, Test\_Loss: 0.16361922025680542  
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Epoch: 28, Train\_Loss: 0.16645854711532593, Test\_Loss: 0.15327832102775574 \*  
Epoch: 28, Train\_Loss: 0.39587050676345825, Test\_Loss: 0.16989994049072266  
Epoch: 28, Train\_Loss: 0.5382657051086426, Test\_Loss: 0.14473004639148712 \*  
Epoch: 28, Train\_Loss: 0.3821285367012024, Test\_Loss: 0.14509256184101105  
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Epoch: 28, Train\_Loss: 0.14812755584716797, Test\_Loss: 0.15778405964374542 \*  
Epoch: 28, Train\_Loss: 0.41816508769989014, Test\_Loss: 0.1795808970928192  
Epoch: 28, Train\_Loss: 0.24970632791519165, Test\_Loss: 0.15114888548851013 \*  
Epoch: 28, Train\_Loss: 0.15603549778461456, Test\_Loss: 0.14998212456703186 \*  
Epoch: 28, Train\_Loss: 0.32486462593078613, Test\_Loss: 0.15690827369689941  
Epoch: 28, Train\_Loss: 0.1600767821073532, Test\_Loss: 0.15874925255775452  
Epoch: 28, Train\_Loss: 0.16139322519302368, Test\_Loss: 0.14214187860488892 \*  
Epoch: 28, Train\_Loss: 0.18729165196418762, Test\_Loss: 0.1598796844482422  
Epoch: 28, Train\_Loss: 0.25440388917922974, Test\_Loss: 0.15810631215572357 \*  
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Epoch: 28, Train\_Loss: 0.24517452716827393, Test\_Loss: 0.147071972489357 \*  
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Epoch: 28, Train\_Loss: 0.22790417075157166, Test\_Loss: 0.14459867775440216 \*  
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Epoch: 28, Train\_Loss: 0.23248955607414246, Test\_Loss: 0.18653035163879395 \*  
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Epoch: 28, Train\_Loss: 0.14190562069416046, Test\_Loss: 0.14557065069675446 \*  
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Epoch: 28, Train\_Loss: 0.2141147255897522, Test\_Loss: 0.2173246145248413 \*  
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Epoch: 29, Train\_Loss: 0.13876989483833313, Test\_Loss: 0.15604491531848907 \*  
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Epoch: 29, Train\_Loss: 0.14369365572929382, Test\_Loss: 0.24485956132411957 \*  
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Epoch: 29, Train\_Loss: 0.1509402096271515, Test\_Loss: 0.20069573819637299 \*  
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Epoch: 29, Train\_Loss: 0.15721601247787476, Test\_Loss: 0.21138712763786316 \*  
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Epoch: 29, Train\_Loss: 0.1675659716129303, Test\_Loss: 0.1474810689687729 \*  
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Epoch: 29, Train\_Loss: 0.14523813128471375, Test\_Loss: 0.1380673050880432 \*  
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Epoch: 29, Train\_Loss: 0.408083438873291, Test\_Loss: 0.16423086822032928 \*  
Epoch: 29, Train\_Loss: 0.42268750071525574, Test\_Loss: 0.15738530457019806 \*

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Epoch: 29, Train\_Loss: 1.6217564344406128, Test\_Loss: 0.1401231735944748 \*  
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Epoch: 30, Train\_Loss: 0.13903208076953888, Test\_Loss: 0.15528550744056702  
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Epoch: 30, Train\_Loss: 0.15626336634159088, Test\_Loss: 0.1458386927843094 \*  
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Epoch: 30, Train\_Loss: 0.4563266634941101, Test\_Loss: 0.27723532915115356 \*  
Epoch: 30, Train\_Loss: 0.30907997488975525, Test\_Loss: 0.21141934394836426 \*  
Epoch: 30, Train\_Loss: 0.5226699113845825, Test\_Loss: 0.15826207399368286 \*  
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Epoch: 30, Train\_Loss: 0.38514649868011475, Test\_Loss: 0.4207170605659485  
Epoch: 30, Train\_Loss: 0.3315979242324829, Test\_Loss: 0.41420602798461914 \*  
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Epoch: 30, Train\_Loss: 0.14670144021511078, Test\_Loss: 0.16510561108589172 \*  
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Epoch: 30, Train\_Loss: 0.15518470108500064, Test\_Loss: 0.1746022178434272

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Epoch: 30, Train\_Loss: 3.619366407394409, Test\_Loss: 0.15081799030303955  
Epoch: 30, Train\_Loss: 0.14513970911502838, Test\_Loss: 0.15630850195884705  
Epoch: 30, Train\_Loss: 0.1380036175251007, Test\_Loss: 0.16535638272762299  
Epoch: 30, Train\_Loss: 0.14117835462093353, Test\_Loss: 0.1376429796218872 \*  
Epoch: 30, Train\_Loss: 0.1341027468442917, Test\_Loss: 0.22886478900909424  
Epoch: 30, Train\_Loss: 0.13665100932121277, Test\_Loss: 0.5116002559661865  
Epoch: 30, Train\_Loss: 0.13916116952896118, Test\_Loss: 0.2312057465314865 \*  
Epoch: 30, Train\_Loss: 0.13546445965766907, Test\_Loss: 0.34153133630752563  
Epoch: 30, Train\_Loss: 0.13530884683132172, Test\_Loss: 0.14804357290267944 \*  
Epoch: 30, Train\_Loss: 0.13654495775699615, Test\_Loss: 0.14698323607444763 \*  
Epoch: 30, Train\_Loss: 0.14884498715400696, Test\_Loss: 0.1465228945016861 \*  
Epoch: 30, Train\_Loss: 0.14358624815940857, Test\_Loss: 0.1468518227338791  
Epoch: 30, Train\_Loss: 0.16668695211410522, Test\_Loss: 0.16138982772827148  
Epoch: 30, Train\_Loss: 0.16483844816684723, Test\_Loss: 5.137932777404785  
Epoch: 30, Train\_Loss: 0.13458611071109772, Test\_Loss: 2.0754635334014893 \*  
Epoch: 30, Train\_Loss: 0.25889062881469727, Test\_Loss: 0.16441181302070618 \*  
Epoch: 30, Train\_Loss: 0.1625131219625473, Test\_Loss: 0.17419660091400146  
Epoch: 30, Train\_Loss: 0.15430963039398193, Test\_Loss: 0.22123196721076965  
Epoch: 30, Train\_Loss: 0.26868098974227905, Test\_Loss: 0.13781851530075073 \*  
Epoch: 30, Train\_Loss: 0.13972565531730652, Test\_Loss: 0.16820719838142395  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 30  
Epoch: 30, Train\_Loss: 0.13519717752933502, Test\_Loss: 0.35897526144981384  
Epoch: 30, Train\_Loss: 0.13909867405891418, Test\_Loss: 0.21835176646709442 \*  
Epoch: 30, Train\_Loss: 0.1357649862766266, Test\_Loss: 0.22371265292167664  
Epoch: 30, Train\_Loss: 0.13652576506137848, Test\_Loss: 0.2740992605686188  
Epoch: 30, Train\_Loss: 0.14385490119457245, Test\_Loss: 0.2012495994567871 \*  
Epoch: 30, Train\_Loss: 0.13848941028118134, Test\_Loss: 0.44806286692619324  
Epoch: 30, Train\_Loss: 0.13464003801345825, Test\_Loss: 0.16312943398952484 \*  
Epoch: 30, Train\_Loss: 0.1463111788034439, Test\_Loss: 0.1976276934146881  
Epoch: 30, Train\_Loss: 0.1678866744041443, Test\_Loss: 0.1580536663532257 \*  
Epoch: 30, Train\_Loss: 0.17723923921585083, Test\_Loss: 0.13895569741725922 \*  
Epoch: 30, Train\_Loss: 0.14384725689888, Test\_Loss: 0.144625723361969  
Epoch: 30, Train\_Loss: 0.23506811261177063, Test\_Loss: 0.16042640805244446  
Epoch: 30, Train\_Loss: 0.16703380644321442, Test\_Loss: 0.14080220460891724 \*  
Epoch: 30, Train\_Loss: 0.20873624086380005, Test\_Loss: 0.1567964255809784  
Epoch: 30, Train\_Loss: 0.19585071504116058, Test\_Loss: 0.190873384475708  
Epoch: 30, Train\_Loss: 0.19944007694721222, Test\_Loss: 0.13868673145771027 \*  
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Epoch: 30, Train\_Loss: 0.27567899227142334, Test\_Loss: 0.18208564817905426  
Epoch: 30, Train\_Loss: 0.14891548454761505, Test\_Loss: 0.13716715574264526 \*  
Epoch: 30, Train\_Loss: 0.16902121901512146, Test\_Loss: 0.1354193240404129 \*  
Epoch: 30, Train\_Loss: 2.0918045043945312, Test\_Loss: 0.15742342174053192  
Epoch: 30, Train\_Loss: 0.41377705335617065, Test\_Loss: 0.1481562703847885 \*  
Epoch: 30, Train\_Loss: 0.17878884077072144, Test\_Loss: 0.13454410433769226 \*  
Epoch: 30, Train\_Loss: 0.1716257631778717, Test\_Loss: 0.2495078295469284  
Epoch: 30, Train\_Loss: 0.13823316991329193, Test\_Loss: 0.22738665342330933 \*  
Epoch: 30, Train\_Loss: 0.16288720071315765, Test\_Loss: 5.311825752258301  
Epoch: 30, Train\_Loss: 0.15696385502815247, Test\_Loss: 0.45460012555122375 \*  
Epoch: 30, Train\_Loss: 0.15578477084636688, Test\_Loss: 0.14520005881786346 \*  
Epoch: 30, Train\_Loss: 0.18115869164466858, Test\_Loss: 0.22519941627979279  
Epoch: 30, Train\_Loss: 0.15812885761260986, Test\_Loss: 0.2655879259109497  
Epoch: 30, Train\_Loss: 0.15064777433872223, Test\_Loss: 0.15901313722133636 \*  
Epoch: 30, Train\_Loss: 0.1411563903093338, Test\_Loss: 0.14617480337619781 \*  
Epoch: 30, Train\_Loss: 0.1438179910182953, Test\_Loss: 0.17627248167991638  
Epoch: 30, Train\_Loss: 0.13555648922920227, Test\_Loss: 0.17697902023792267  
Epoch: 30, Train\_Loss: 0.14243538677692413, Test\_Loss: 0.14073044061660767 \*  
Epoch: 30, Train\_Loss: 0.15698078274726868, Test\_Loss: 0.15222296118736267  
Epoch: 30, Train\_Loss: 0.14265602827072144, Test\_Loss: 0.18706125020980835  
Epoch: 30, Train\_Loss: 0.13351105153560638, Test\_Loss: 0.16531822085380554 \*  
Epoch: 30, Train\_Loss: 0.14186888933181763, Test\_Loss: 0.20055940747261047  
Epoch: 30, Train\_Loss: 0.14074186980724335, Test\_Loss: 0.15197686851024628 \*  
Epoch: 30, Train\_Loss: 0.13903576135635376, Test\_Loss: 0.173709899187088  
Epoch: 30, Train\_Loss: 0.13778585195541382, Test\_Loss: 0.1567842662334442 \*  
Epoch: 30, Train\_Loss: 0.13423481583595276, Test\_Loss: 0.19990050792694092  
Epoch: 30, Train\_Loss: 0.13323576748371124, Test\_Loss: 0.24131283164024353  
Epoch: 30, Train\_Loss: 0.13457007706165314, Test\_Loss: 0.20972932875156403 \*  
Epoch: 30, Train\_Loss: 0.14200115203857422, Test\_Loss: 0.286823034286499  
Epoch: 30, Train\_Loss: 0.13366064429283142, Test\_Loss: 0.36578595638275146  
Epoch: 30, Train\_Loss: 0.1342550367116928, Test\_Loss: 0.3156273663043976 \*  
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Epoch: 30, Train\_Loss: 0.13560926914215088, Test\_Loss: 0.3382/28993892669/  
Epoch: 30, Train\_Loss: 0.13361945748329163, Test\_Loss: 0.3114204704761505 \*  
Epoch: 30, Train\_Loss: 0.13637760281562805, Test\_Loss: 0.26771530508995056 \*  
Epoch: 30, Train\_Loss: 0.13442014157772064, Test\_Loss: 0.23775336146354675 \*  
Epoch: 30, Train\_Loss: 0.13938583433628082, Test\_Loss: 0.17573130130767822 \*  
Epoch: 30, Train\_Loss: 0.1387263834476471, Test\_Loss: 0.14911668002605438 \*  
Epoch: 30, Train\_Loss: 0.13474346697330475, Test\_Loss: 0.14384126663208008 \*  
Epoch: 30, Train\_Loss: 0.1659076064825058, Test\_Loss: 0.15511640906333923  
Epoch: 30, Train\_Loss: 0.16940753161907196, Test\_Loss: 0.1944187432527542  
Epoch: 30, Train\_Loss: 0.14352375268936157, Test\_Loss: 0.35065698623657227  
Epoch: 30, Train\_Loss: 0.14376243948936462, Test\_Loss: 0.221262127161026 \*  
Epoch: 30, Train\_Loss: 0.14711599051952362, Test\_Loss: 0.24137063324451447  
Epoch: 30, Train\_Loss: 0.1601870059967041, Test\_Loss: 0.18173420429229736 \*  
Epoch: 30, Train\_Loss: 0.13672393560409546, Test\_Loss: 0.1623895764350891 \*  
Epoch: 30, Train\_Loss: 0.14258384704589844, Test\_Loss: 0.14398910105228424 \*  
Epoch: 30, Train\_Loss: 0.13707345724105835, Test\_Loss: 0.16036275029182434  
Epoch: 30, Train\_Loss: 0.15016832947731018, Test\_Loss: 0.3684301972389221  
Epoch: 30, Train\_Loss: 0.20034855604171753, Test\_Loss: 0.17386563122272491 \*  
Epoch: 30, Train\_Loss: 0.1518450379371643, Test\_Loss: 0.3163321018218994  
Epoch: 30, Train\_Loss: 0.14424628019332886, Test\_Loss: 0.24183395504951477 \*  
Epoch: 30, Train\_Loss: 0.13466869294643402, Test\_Loss: 0.14625418186187744 \*  
Epoch: 30, Train\_Loss: 0.1518860161304474, Test\_Loss: 0.1411929875612259 \*  
Epoch: 30, Train\_Loss: 0.1548498421907425, Test\_Loss: 0.13940462470054626 \*  
Epoch: 30, Train\_Loss: 0.1499163955450058, Test\_Loss: 0.16294696927070618  
Epoch: 30, Train\_Loss: 0.1557009220123291, Test\_Loss: 0.14297237992286682 \*  
Epoch: 30, Train\_Loss: 0.15509186685085297, Test\_Loss: 0.15556685626506805  
Epoch: 30, Train\_Loss: 0.21183326840400696, Test\_Loss: 0.14136283099651337 \*  
Epoch: 30, Train\_Loss: 0.16019544005393982, Test\_Loss: 0.1864684820175171  
Epoch: 30, Train\_Loss: 0.1558886468410492, Test\_Loss: 0.48573213815689087  
Epoch: 30, Train\_Loss: 0.1645451933145523, Test\_Loss: 0.1652333289384842 \*  
Epoch: 30, Train\_Loss: 0.15867376327514648, Test\_Loss: 0.28637510538101196  
Epoch: 30, Train\_Loss: 0.14621253311634064, Test\_Loss: 0.13322173058986664 \*  
Epoch: 30, Train\_Loss: 0.13709108531475067, Test\_Loss: 0.13259871304035187 \*  
Epoch: 30, Train\_Loss: 0.15996575355529785, Test\_Loss: 0.13284555077552795  
Epoch: 30, Train\_Loss: 0.137553408741951, Test\_Loss: 0.13463978469371796  
Epoch: 30, Train\_Loss: 0.1417774260044098, Test\_Loss: 0.15862123668193817  
Epoch: 30, Train\_Loss: 0.21187421679496765, Test\_Loss: 5.725686550140381  
Epoch: 30, Train\_Loss: 0.14115940034389496, Test\_Loss: 0.9607204794883728 \*  
Epoch: 30, Train\_Loss: 0.17912402749061584, Test\_Loss: 0.1459445357322693 \*  
Epoch: 30, Train\_Loss: 0.15002688765525818, Test\_Loss: 0.14407281577587128 \*  
Epoch: 30, Train\_Loss: 0.14622239768505096, Test\_Loss: 0.14044952392578125 \*  
Epoch: 30, Train\_Loss: 0.2303832471370697, Test\_Loss: 0.13698279857635498 \*  
Epoch: 30, Train\_Loss: 0.2686282992362976, Test\_Loss: 0.15303440392017365  
Epoch: 30, Train\_Loss: 0.13754476606845856, Test\_Loss: 0.1655547171831131  
Epoch: 30, Train\_Loss: 0.1649097204208374, Test\_Loss: 0.15039819478988647 \*  
Epoch: 30, Train\_Loss: 0.1330755203962326, Test\_Loss: 0.1485564112663269 \*  
Epoch: 30, Train\_Loss: 0.133262038230896, Test\_Loss: 0.15981760621070862  
Epoch: 30, Train\_Loss: 0.13698866963386536, Test\_Loss: 0.17572586238384247  
Epoch: 30, Train\_Loss: 0.13651397824287415, Test\_Loss: 0.15786144137382507 \*  
Epoch: 30, Train\_Loss: 0.13394944369792938, Test\_Loss: 0.15872716903686523  
Epoch: 30, Train\_Loss: 0.1428717076778412, Test\_Loss: 0.17577403783798218  
Epoch: 30, Train\_Loss: 0.1415025144815445, Test\_Loss: 0.13737230002880096 \*  
Model saved at location C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save  
copy\model.ckpt at epoch 30  
Epoch: 30, Train\_Loss: 0.1392526477575302, Test\_Loss: 0.13541564345359802 \*  
Epoch: 30, Train\_Loss: 0.14121492207050323, Test\_Loss: 0.13355739414691925 \*  
Epoch: 30, Train\_Loss: 0.13701173663139343, Test\_Loss: 0.140360027551651  
Epoch: 30, Train\_Loss: 0.13435688614845276, Test\_Loss: 0.13712455332279205 \*  
Epoch: 30, Train\_Loss: 0.13441725075244904, Test\_Loss: 0.1453866809606552  
Epoch: 30, Train\_Loss: 0.14407077431678772, Test\_Loss: 0.14747254550457  
Epoch: 30, Train\_Loss: 0.13687428832054138, Test\_Loss: 0.13511788845062256 \*  
Epoch: 30, Train\_Loss: 0.15451668202877045, Test\_Loss: 0.13687936961650848  
Epoch: 30, Train\_Loss: 0.14057528972625732, Test\_Loss: 0.13972076773643494  
Epoch: 30, Train\_Loss: 0.1420207917690277, Test\_Loss: 0.13472014665603638 \*  
Epoch: 30, Train\_Loss: 0.14342622458934784, Test\_Loss: 0.1387278139591217  
Epoch: 30, Train\_Loss: 0.1565181016921997, Test\_Loss: 0.13748815655708313 \*  
Epoch: 30, Train\_Loss: 0.14202089607715607, Test\_Loss: 0.1342688947916031 \*  
Epoch: 30, Train\_Loss: 0.15681827068328857, Test\_Loss: 0.13368535041809082 \*  
Epoch: 30, Train\_Loss: 0.13422469794750214, Test\_Loss: 0.21101966500282288  
Epoch: 30, Train\_Loss: 0.14714458584785461, Test\_Loss: 0.4371834099292755  
Epoch: 30, Train\_Loss: 0.1525229513645172, Test\_Loss: 5.572830677032471  
Epoch: 30, Train\_Loss: 0.15805195271968842, Test\_Loss: 0.17406637966632843 \*  
Epoch: 30, Train\_Loss: 1.9950932264328003, Test\_Loss: 0.13659155368804932 \*  
Epoch: 30, Train\_Loss: 3.283327102661133, Test\_Loss: 0.176778182387352  
Epoch: 30, Train\_Loss: 0.14565278589725494, Test\_Loss: 0.15043866634368896 \*  
Epoch: 30, Train\_Loss: 0.14430378377437592, Test\_Loss: 0.14206692576408386 \*  
Epoch: 30, Train\_Loss: 0.15448012948036194, Test\_Loss: 0.14360548555850983

Epoch: 30, Train\_Loss: 0.18621593713760376, Test\_Loss: 0.20660075545310974  
Epoch: 30, Train\_Loss: 0.1576591432094574, Test\_Loss: 0.16661226749420166 \*  
Epoch: 30, Train\_Loss: 0.13992173969745636, Test\_Loss: 0.13689735531806946 \*  
Epoch: 30, Train\_Loss: 0.1324796825647354, Test\_Loss: 0.15214058756828308  
Epoch: 30, Train\_Loss: 0.19186365604400635, Test\_Loss: 0.15380385518074036  
Epoch: 30, Train\_Loss: 0.15534797310829163, Test\_Loss: 0.1407371312379837 \*  
Epoch: 30, Train\_Loss: 0.14670021831989288, Test\_Loss: 0.177308589220047  
Epoch: 30, Train\_Loss: 0.5106394290924072, Test\_Loss: 0.15809056162834167 \*  
Epoch: 30, Train\_Loss: 0.28273260593414307, Test\_Loss: 0.18574580550193787  
Epoch: 30, Train\_Loss: 0.6524175405502319, Test\_Loss: 0.14963380992412567 \*  
Epoch: 30, Train\_Loss: 0.18448218703269958, Test\_Loss: 0.18382056057453156  
Epoch: 30, Train\_Loss: 0.4448067545890808, Test\_Loss: 0.1756380796432495 \*  
Epoch: 30, Train\_Loss: 0.468405157327652, Test\_Loss: 0.19900420308113098  
Epoch: 30, Train\_Loss: 0.7448318004608154, Test\_Loss: 0.3774634599685669  
Epoch: 30, Train\_Loss: 0.13406795263290405, Test\_Loss: 0.3546239733695984 \*  
Epoch: 30, Train\_Loss: 0.15177461504936218, Test\_Loss: 0.37447160482406616  
Epoch: 30, Train\_Loss: 0.5149778723716736, Test\_Loss: 0.40294671058654785  
Epoch: 30, Train\_Loss: 0.2705535590648651, Test\_Loss: 0.3104819655418396 \*  
Epoch: 30, Train\_Loss: 0.4990522265434265, Test\_Loss: 0.2752966284751892 \*  
Epoch: 30, Train\_Loss: 0.13795198500156403, Test\_Loss: 0.23028436303138733 \*  
Epoch: 30, Train\_Loss: 0.15309172868728638, Test\_Loss: 0.16700774431228638 \*  
Epoch: 30, Train\_Loss: 0.36814284324645996, Test\_Loss: 0.15361200273036957 \*  
Epoch: 30, Train\_Loss: 0.36257654428482056, Test\_Loss: 0.13858750462532043 \*  
Epoch: 30, Train\_Loss: 0.201332688331604, Test\_Loss: 0.1531451940536499  
Epoch: 30, Train\_Loss: 0.17814144492149353, Test\_Loss: 0.18406236171722412  
Epoch: 30, Train\_Loss: 0.1691691130399704, Test\_Loss: 0.3864355981349945  
Epoch: 30, Train\_Loss: 0.18125571310520172, Test\_Loss: 0.25650542974472046 \*  
Epoch: 30, Train\_Loss: 0.2645772397518158, Test\_Loss: 0.2017822265625 \*  
Epoch: 30, Train\_Loss: 0.20699487626552582, Test\_Loss: 0.18552404642105103 \*  
Epoch: 30, Train\_Loss: 0.16731686890125275, Test\_Loss: 0.15946967899799347 \*  
Epoch: 30, Train\_Loss: 0.24672585725784302, Test\_Loss: 0.14184994995594025 \*  
Wall time: 14h 7min 5s

In [19]:

```
frame = pd.read_csv(os.path.join(SAVEDIR, "log.csv"))  
frame
```

Out[19]:

	Epoch	Train Loss	Test Loss
0	0	22.823399	22.434342
1	1	14.091616	13.621994
2	2	9.453352	8.787548
3	3	6.878366	6.338967
4	4	5.192993	4.920583
5	5	4.342285	4.022159
6	6	3.889040	3.481969
7	7	3.475485	3.113996
8	8	2.932914	2.819652
9	9	2.692303	2.610340
10	10	2.663958	2.487891
11	11	2.566728	2.375984
12	12	2.223095	2.107902
13	13	2.134924	2.005807
14	14	2.206259	1.990308
15	15	2.084121	2.071985
16	16	1.849982	1.905845
17	17	1.862292	1.817644
18	18	1.933937	1.837570
19	19	1.811197	2.048016

	Epoch	Train Loss	Test Loss
20	20	1.660461	1.652541
21	21	1.666206	1.613926
22	22	1.739199	1.587677
23	23	1.656748	1.671538
24	24	1.511998	1.507372
25	25	1.477048	1.566725
26	26	1.579266	1.601163
27	27	1.551501	1.656111
28	28	1.413810	1.665223
29	29	1.344026	1.605769

as both losses are almost similar for each value and gradually decreasing our output is right

In [44]:

```
from os.path import join, expanduser
from subprocess import call
```

In [65]:

```
sess = tf.InteractiveSession()

saver = tf.train.Saver()
saver.restore(sess, r"C:\Users\Administrator\Downloads\Autopilot-TensorFlow-master\save
copy\model.ckpt")

img = cv2.imread(r"C:\Users\Administrator\Downloads\Autopilot-TensorFlow-
master\steering_wheel_image.jpg",0) #here, second parameter '0' specifies that img.shape will retur
n only height and
#width of the image and not the number of channels. It is a colored image so number of channels =
3, which it will not return.
rows, cols = img.shape

i = 0

while(cv2.waitKey(60) != ord("q")):
    full_image = cv2.imread(test_x[i]) # cv2 is for computer vision and image processing.
    cv2.imshow('Frame Window', full_image) # this shows us road frame window onwhich vechile is dri
ving
    image = ((cv2.resize(full_image[-150:], (200, 66)) / 255.0).reshape((1, 66, 200, 3)))
    degrees = sess.run(y_predicted, feed_dict = {x_input: image, keep_prob: 1.0})[0][0] *180 / pi #
here, we have converted the
    #predicted degrees from radians to degrees.
    #simple smoothing the steering angle.
    M = cv2.getRotationMatrix2D((cols/2,rows/2), -degrees, 1) #this function rotate the image by a
given degrees.
    dst = cv2.warpAffine(src = img, M = M, dsize = (cols, rows)) #warpAffine function applies
rotation to the image
    cv2.imshow("Steering Wheel", dst) # this shows steering window in which steering rotates this
angle comes from model evaluation
    i += 1

cv2.destroyAllWindows()
```

C:\ProgramData\Anaconda3\lib\site-packages\tensorflow\python\client\session.py:1702: UserWarning:  
An interactive session is already active. This can cause out-of-memory errors in some cases. You m  
ust explicitly call `InteractiveSession.close()` to release resources held by the other  
session(s).

warnings.warn('An interactive session is already active. This can '

INFO:tensorflow:Restoring parameters from C:\Users\Administrator\Downloads\Autopilot-TensorFlow-ma  
ster\save copy\model.ckpt

