```python
#let us import all the necessary packages
import os
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from scipy import pi
import cv2
import scipy.misc
import tensorflow as tf
```

```
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:516:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:517:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:518:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:519:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:520:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-packages/tensorflow/python/framework/dtypes.py:525:
FutureWarning: Passing (type, 1) or '1type' 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)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:541: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  _np_qint8 = np.dtype([("qint8", np.int8, 1)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:542: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  _np_quint8 = np.dtype([("quint8", np.uint8, 1)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:543: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  _np_qint16 = np.dtype([("qint16", np.int16, 1)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:544: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  _np_quint16 = np.dtype([("quint16", np.uint16, 1)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:545: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  _np_qint32 = np.dtype([("qint32", np.int32, 1)])
/home/ubuntu/anaconda3/lib/python3.6/site-
packages/tensorboard/compat/tensorflow_stub/dtypes.py:550: FutureWarning: Passing (type, 1) or '1t
ype' as a synonym of type is deprecated; in a future version of numpy, it will be understood as (t
ype, (1,)) / '(1,)type'.
  np_resource = np.dtype([("resource", np.ubyte, 1)])
```

```python
DATA_FOLDER = "driving_dataset/"
DATA_FILE = os.path.join(DATA_FOLDER, "data.txt")
```

```
x = []
y = []

train_batch_pointer = 0
test_batch_pointer = 0
```

In [3]:
```
with open(DATA_FILE) 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
```

Splitting train and test data (70:30)

In [4]:
```
#using 70-30 split of train and test data
split_ratio = int(len(x) * 0.7)

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

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

print("Split ratio")
print('-'*50)
print('Train dataset:',len(train_x)/len(x)*100,'%\n','size:',len(train_x))

print('Test dataset:',len(test_x)/len(x)*100,'%\n','size:',len(test_x))
```
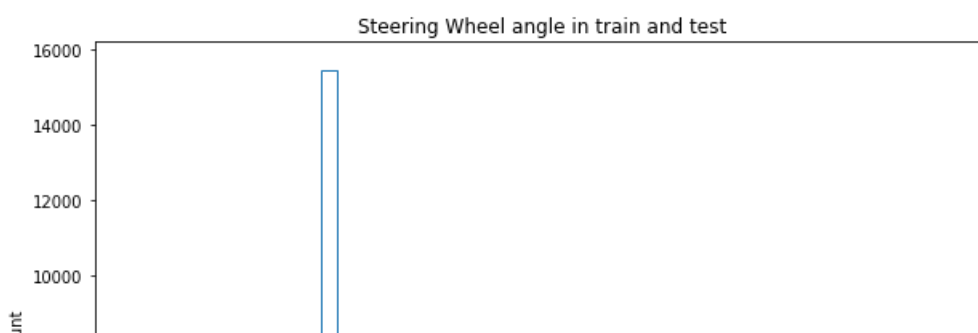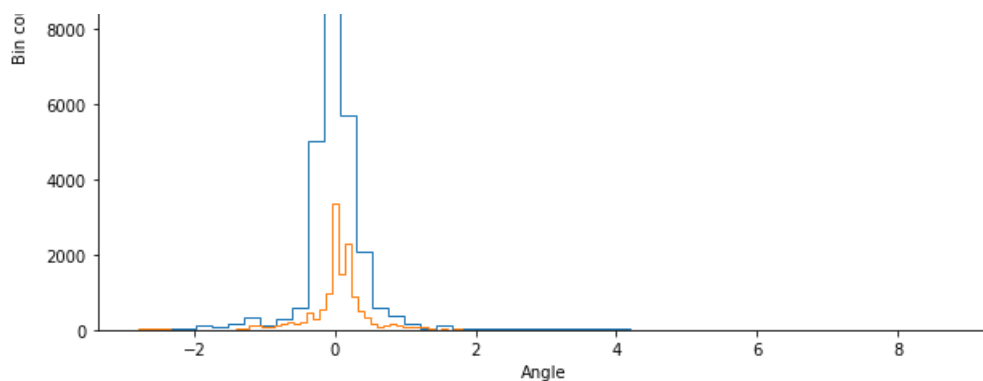
```
Split ratio
--------------------------------------------------
Train dataset: 69.9995595295776 %
 size: 31784
Test dataset: 30.00044047042241 %
 size: 13622
```

In [5]:
```
#distrubution of steer angle parameter in train and test
fig = plt.figure(figsize = (10, 7))
plt.hist(train_y, bins = 50, histtype = "step")
plt.hist(test_y, bins = 50, histtype = "step")    #test-orange
plt.title("Steering Wheel angle in train and test")
plt.xlabel("Angle")
plt.ylabel("Bin count")
plt.show()
```

Most of the steering angle values are 0,indicating that the car has been driving mostly on straight roads rather than curvy roads.

Architecture of the train model

In [6]:

```python
# from driving_data.py
```

In [6]:

```python
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)])
        read_image_road = read_image[-150:]
        read_image_resize = cv2.resize(read_image_road, (200, 66))
        read_image_final = read_image_resize/255.0

        x_result.append(read_image_final)

        y_result.append(train_y[(train_batch_pointer + i) % len(train_y)])

    train_batch_pointer += batch_size

    return x_result, y_result
```

In [7]:

```python
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)])
        read_image_road = read_image[-150:]
        read_image_resize = cv2.resize(read_image_road, (200, 66))
        read_image_final = read_image_resize/255.0
        x_result.append(read_image_final)

        y_result.append(test_y[(test_batch_pointer + i) % len(test_y)])

    test_batch_pointer += batch_size

    return x_result, y_result
```

In [9]:

```python
## from model.py
```

In [8]:

```python
def weight_variable(shape):
    initial = tf.truncated_normal(shape = shape, stddev = 0.1)
```

```python
        return tf.Variable(initial)

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

def conv2d(previous_input, filter_input, strides,name):
    print(name,filter_input.shape,filter_input.shape[-1])
    return tf.nn.conv2d(previous_input, filter_input, strides = [1, strides, strides, 1], padding =
"VALID")


# def Dense(X, size, name):
#     w = weight_variable(shape=size)
#     b = weight_variable(shape=[size[-1]])

#     dense = tf.matmul(X, w) + b
#     print(name, size, size[-1])
#     ## Applying activation


#     h_fc = tf.nn.relu(dense)


#     return h_fc


# def flatten(X, size):
#     return tf.reshape(X, [-1, size])
```

```python
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
#keep_prob = tf.placeholder(tf.float32)
# # Flatten layer

# h_conv5_flatten = flatten(Conv5, size=1152)


# # Dense layer 1
# h_fc1 = Dense(h_conv5_flatten, (1152, 1164), name='dense1')
# # Dropout 1
# h_fc1_drop = tf.nn.dropout(h_fc1, keep_prob)

# # Dense Layer 2
# h_fc2 = Dense(h_fc1_drop, (1164, 100), name='dense2')
# # Dropout 2
# h_fc2_drop = tf.nn.dropout(h_fc2, keep_prob)

# # Dense Layer 3
# h_fc3 = Dense(h_fc2_drop, (100, 50), name='dense3')
# # Dropout 3
# h_fc3_drop = tf.nn.dropout(h_fc3, keep_prob)

# # Dense Layer 4
# h_fc4 = Dense(h_fc3_drop, (50, 10), name='dense4')

# # Dropout 4
# h_fc4_drop = tf.nn.dropout(h_fc4, keep_prob)


# # Output
# W_fc5 = weight_variable(shape = [10, 1])
# b_fc5 = bias_variable(shape = [1])
# y = tf.matmul(h_fc4_drop, W_fc5) + b_fc5
```

using linear output tf.matmul() instead of atan in the output

```python
#Convolution Layers
```

```python
#First convolution layer
W_Conv1 = weight_variable([5,5,3,24])
B_Conv1 = bias_variable([24])
Conv1 = tf.nn.elu(conv2d(input_image, W_Conv1, 2,name='conv2d_1') + B_Conv1)
#tf.nn.conv2d(previous_input, filter_input, strides = [1, strides, strides, 1], padding = "VALID")

#Second convolution layer
W_Conv2 = weight_variable([5,5,24,36])
B_Conv2 = bias_variable([36])
Conv2 = tf.nn.elu(conv2d(Conv1, W_Conv2, 2,name='conv2d_2') + B_Conv2)


#Third convolution layer
W_Conv3 = weight_variable([5,5,36,48])
B_Conv3 = bias_variable([48])
Conv3 = tf.nn.elu(conv2d(Conv2, W_Conv3, 2,name='conv2d_3') + B_Conv3)


#Fourth convolution layer
W_Conv4 = weight_variable([3,3,48,64])
B_Conv4 = bias_variable([64])
Conv4 = tf.nn.elu(conv2d(Conv3, W_Conv4, 1,name='conv2d_4') + B_Conv4)



#Fifth convolution layer
W_Conv5 = weight_variable([3,3,64,64])
B_Conv5 = bias_variable([64])
Conv5 = tf.nn.elu(conv2d(Conv4, W_Conv5, 1,name='conv2d_5') + B_Conv5)


#Fully-Connected Dense Layers
keep_prob = tf.placeholder(tf.float32)

W_FC1 = weight_variable([1152, 1164])
B_FC1 = bias_variable([1164])
FC1_Flatten = tf.reshape(Conv5, [-1, 1152])
Output_FC1 = tf.nn.elu(tf.matmul(FC1_Flatten, W_FC1) + B_FC1)

Output_FC1_drop = tf.nn.dropout(Output_FC1, keep_prob)


W_FC2 = weight_variable([1164, 100])
B_FC2 = bias_variable([100])
Output_FC2 = tf.nn.elu(tf.matmul(Output_FC1_drop, W_FC2) + B_FC2)

Output_FC2_drop = tf.nn.dropout(Output_FC2, keep_prob)


W_FC3 = weight_variable([100, 50])
B_FC3 = bias_variable([50])
Output_FC3 = tf.nn.elu(tf.matmul(Output_FC2_drop, W_FC3) + B_FC3)

Output_FC3_drop = tf.nn.dropout(Output_FC3, keep_prob)



W_FC4 = weight_variable([50, 10])
B_FC4 = bias_variable([10])
Output_FC4 = tf.nn.elu(tf.matmul(Output_FC3_drop, W_FC4) + B_FC4) #
Output_FC4_drop = tf.nn.dropout(Output_FC4, keep_prob)


W_FC5 = weight_variable([10, 1])
B_FC5 = bias_variable([1])
#y_predicted = tf.identity(tf.matmul(Output_FC4_drop, W_FC5) + B_FC5)
y_predicted = tf.matmul(Output_FC4_drop, W_FC5) + B_FC5
```

```
conv2d_1 (5, 5, 3, 24) 24
conv2d_2 (5, 5, 24, 36) 36
conv2d_3 (5, 5, 36, 48) 48
conv2d_4 (3, 3, 48, 64) 64
conv2d_5 (3, 3, 64, 64) 64
WARNING:tensorflow:From <ipython-input-10-d5545d1a50ea>:41: 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`.

Train model

changing keep_prob(dropout) to 0.5 and learning rate of Adam optimizer to 1e-4

In [11]:

```python
SAVEDIR = "save_model/"
sess = tf.InteractiveSession()

lr = 1e-4    #learning rate = 0.0001

L2NormConst = 0.001
train_vars = tf.trainable_variables()
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

train_step = tf.train.AdamOptimizer(learning_rate = lr).minimize(loss)
sess.run(tf.global_variables_initializer())

saver = tf.train.Saver()
print('TRAINING SELF DRIVING CAR MODEL')
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
    ##dropout = 0.5
    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: 0.5})
        tr_loss = loss.eval(feed_dict = {x_input: train_batch_x, y_true: train_batch_y, keep_prob: 0.5})
        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: 0.5})
        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, "self_driving_car_model_new.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)
```

```
TRAINING SELF DRIVING CAR MODEL
Epoch: 1, Train_Loss: 17.1971492767334, Test_Loss: 21.44792938232422 *
Epoch: 1, Train_Loss: 18.275070190429688, Test_Loss: 16.155990600585938 *
Epoch: 1, Train_Loss: 32.9098014831543, Test_Loss: 21.228309631347656
Epoch: 1, Train_Loss: 15.947515487670898, Test_Loss: 15.081491470336914 *
Epoch: 1, Train_Loss: 11.379778861999512, Test_Loss: 13.640983581542969 *
Epoch: 1, Train_Loss: 11.016790390014648, Test_Loss: 12.498842239379883 *
Epoch: 1, Train_Loss: 10.67526626586914, Test_Loss: 12.365436553955078 *
Epoch: 1, Train_Loss: 10.416671752929688, Test_Loss: 9.45344066619873 *
```

```
Epoch: 1, Train_Loss: 10.410071752929688, Test_Loss: 9.4554006619875
Epoch: 1, Train_Loss: 11.029698371887207, Test_Loss: 8.8639554977417 *
Epoch: 1, Train_Loss: 24.070764541625977, Test_Loss: 8.616769790649414 *
Epoch: 1, Train_Loss: 11.349949836730957, Test_Loss: 8.322336196899414 *
Epoch: 1, Train_Loss: 8.550683975219727, Test_Loss: 8.312333106994629 *
Epoch: 1, Train_Loss: 14.66134262084961, Test_Loss: 8.037471771240234 *
Epoch: 1, Train_Loss: 10.591028213500977, Test_Loss: 8.375833511352539
Epoch: 1, Train_Loss: 8.633628845214844, Test_Loss: 8.776063919067383
Epoch: 1, Train_Loss: 7.428146839141846, Test_Loss: 8.156299591064453 *
Epoch: 1, Train_Loss: 7.370809555053711, Test_Loss: 8.676047325134277
Epoch: 1, Train_Loss: 8.021344184875488, Test_Loss: 7.904350757598877 *
Epoch: 1, Train_Loss: 7.316504955291748, Test_Loss: 7.7837677001953125 *
Epoch: 1, Train_Loss: 7.40452241897583, Test_Loss: 7.720595836639404 *
Epoch: 1, Train_Loss: 7.245510578155518, Test_Loss: 7.6451568603515625 *
Epoch: 1, Train_Loss: 7.109016418457031, Test_Loss: 7.229194641113281 *
Epoch: 1, Train_Loss: 6.7354936599731445, Test_Loss: 6.976587772369385 *
Epoch: 1, Train_Loss: 7.29718017578125, Test_Loss: 7.268176555633545
Epoch: 1, Train_Loss: 7.113767623901367, Test_Loss: 7.903298377990723
Epoch: 1, Train_Loss: 7.613099575042725, Test_Loss: 7.0824055671691895 *
Epoch: 1, Train_Loss: 6.716910362243652, Test_Loss: 9.04616641998291
Epoch: 1, Train_Loss: 7.673214912414551, Test_Loss: 7.407237529754639 *
Epoch: 1, Train_Loss: 7.087119102478027, Test_Loss: 8.231664657592773
Epoch: 1, Train_Loss: 6.594246864318848, Test_Loss: 6.705004692077637 *
Epoch: 1, Train_Loss: 6.5811333656311035, Test_Loss: 6.841149806976318
Epoch: 1, Train_Loss: 6.732287406921387, Test_Loss: 6.997899055480957
Epoch: 1, Train_Loss: 6.804567337036133, Test_Loss: 8.709086418151855
Epoch: 1, Train_Loss: 6.573734283447266, Test_Loss: 7.977856636047363 *
Epoch: 1, Train_Loss: 6.6770501136779785, Test_Loss: 6.801569938659668 *
Epoch: 1, Train_Loss: 6.782909870147705, Test_Loss: 6.692112445831299 *
Epoch: 1, Train_Loss: 6.670489822387695, Test_Loss: 6.87178373336792
Epoch: 1, Train_Loss: 6.825088024139404, Test_Loss: 7.386335372924805
Epoch: 1, Train_Loss: 6.494589805603027, Test_Loss: 6.927436351776123 *
Epoch: 1, Train_Loss: 6.658318519592285, Test_Loss: 7.738122463226318
Epoch: 1, Train_Loss: 7.153392314910889, Test_Loss: 7.710530757904053 *
Epoch: 1, Train_Loss: 6.637250900268555, Test_Loss: 6.853819847106934 *
Epoch: 1, Train_Loss: 6.692354679107666, Test_Loss: 6.750904083251953 *
Epoch: 1, Train_Loss: 6.763777256011963, Test_Loss: 6.8867411613464355
Epoch: 1, Train_Loss: 15.996528625488281, Test_Loss: 6.793889045715332 *
Epoch: 1, Train_Loss: 6.853341102600098, Test_Loss: 6.721014976501465 *
Epoch: 1, Train_Loss: 6.5259480476379395, Test_Loss: 7.045742034912109
Epoch: 1, Train_Loss: 6.578948020935059, Test_Loss: 7.352752685546875
Epoch: 1, Train_Loss: 6.510647296905518, Test_Loss: 6.658944129943848 *
Epoch: 1, Train_Loss: 6.481070041656494, Test_Loss: 6.585750102996826 *
Epoch: 1, Train_Loss: 6.648102283477783, Test_Loss: 6.654448509216309
Epoch: 1, Train_Loss: 6.65095329284668, Test_Loss: 6.692033767700195
Epoch: 1, Train_Loss: 6.746879577636719, Test_Loss: 6.95895528793335
Epoch: 1, Train_Loss: 6.779660224914551, Test_Loss: 8.201236724853516
Epoch: 1, Train_Loss: 6.624180793762207, Test_Loss: 7.6080522537231445 *
Epoch: 1, Train_Loss: 6.460154056549072, Test_Loss: 6.578480243682861 *
Epoch: 1, Train_Loss: 6.583014011383057, Test_Loss: 6.624907493591309
Epoch: 1, Train_Loss: 6.636862277984619, Test_Loss: 6.804537773132324
Epoch: 1, Train_Loss: 6.628963470458984, Test_Loss: 6.454049110412598 *
Epoch: 1, Train_Loss: 6.714931964874268, Test_Loss: 6.587832927703857
Epoch: 1, Train_Loss: 6.661003112792969, Test_Loss: 6.77232027053833
Epoch: 1, Train_Loss: 6.718843460083008, Test_Loss: 6.547859191894531 *
Epoch: 1, Train_Loss: 6.621023178100586, Test_Loss: 6.438295841217041 *
Epoch: 1, Train_Loss: 6.599667549133301, Test_Loss: 6.531038284301758
Epoch: 1, Train_Loss: 6.578073024749756, Test_Loss: 6.749029159545898
Epoch: 1, Train_Loss: 6.558867931365967, Test_Loss: 6.794005870819092
Epoch: 1, Train_Loss: 6.723668575286865, Test_Loss: 6.804879665374756
Epoch: 1, Train_Loss: 6.520353317260742, Test_Loss: 6.4623494148254395 *
Epoch: 1, Train_Loss: 6.553831100463867, Test_Loss: 6.738678932189941
Epoch: 1, Train_Loss: 11.76539134979248, Test_Loss: 6.466287136077881 *
Epoch: 1, Train_Loss: 6.4186296463012695, Test_Loss: 6.474944591522217
Epoch: 1, Train_Loss: 6.37546968460083, Test_Loss: 6.796921730041504
Epoch: 1, Train_Loss: 6.397491455078125, Test_Loss: 8.062067031860352
Epoch: 1, Train_Loss: 6.46317195892334, Test_Loss: 10.334321975708008
Epoch: 1, Train_Loss: 6.39677619934082, Test_Loss: 6.4872941970825195 *
Epoch: 1, Train_Loss: 6.3592448234558105, Test_Loss: 6.452261924743652 *
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Epoch: 1, Train_Loss: 6.469033718109131, Test_Loss: 6.381556987762451
Epoch: 1, Train_Loss: 6.53892183303833, Test_Loss: 6.365784645080566 *
Epoch: 1, Train_Loss: 6.5615711213183, Test_Loss: 6.502916200256348
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Epoch: 1, Train_Loss: 6.385527610778809, Test_Loss: 6.373656749725342 *
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Epoch: 1, Train_Loss: 6.5431084632873535, Test_Loss: 6.417673110961914 *
Epoch: 1, Train_Loss: 6.440526008605957, Test_Loss: 6.514477252960205
Epoch: 1, Train_Loss: 6.4168925285339355, Test_Loss: 6.374192237854004 *
Epoch: 1, Train_Loss: 6.463372230529785, Test_Loss: 6.621138572692871
Epoch: 1, Train_Loss: 6.414214611053467, Test_Loss: 6.3736138343811035 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 1
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 2
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Epoch: 2, Train_Loss: 5.855111598968506, Test_Loss: 5.885117053985596 *
Epoch: 2, Train_Loss: 5.852243900299072, Test_Loss: 5.867414474487305 *
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Epoch: 2, Train_Loss: 5.865026473999023, Test_Loss: 5.85720682144165 *
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Epoch: 2, Train_Loss: 5.857063293457031, Test_Loss: 6.3529205322265625 *
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Epoch: 2, Train_Loss: 5.831441402435303, Test_Loss: 6.7473368644714355 *
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Epoch: 2, Train_Loss: 5.92141056060791, Test_Loss: 6.214631080627441 *
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Epoch: 2, Train_Loss: 5.862491607666016, Test_Loss: 6.768967151641846
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Epoch: 2, Train_Loss: 5.9996442794799805, Test_Loss: 5.909289836883545 *
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Epoch: 2, Train_Loss: 5.836159706115723, Test_Loss: 5.856159210205078 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 2
Epoch: 2, Train_Loss: 5.833578586578369, Test_Loss: 6.180383682250977
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Epoch: 2, Train_Loss: 5.820930480957031, Test_Loss: 6.821081161499023
Epoch: 2, Train_Loss: 5.835629463195801, Test_Loss: 6.054316520690918 *
Epoch: 2, Train_Loss: 5.837540149688721, Test_Loss: 5.827019214630127 *
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Epoch: 3, Train_Loss: 5.725253105163574, Test_Loss: 6.311879634857178
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 3
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Epoch: 3, Train_Loss: 5.673953056335449, Test_Loss: 5.675932884216309 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 3
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Epoch: 3, Train_Loss: 5.571117401123047, Test_Loss: 5.5633320808410645 *

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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 3
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 4
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Epoch: 4, Train_Loss: 5.376067161560059, Test_Loss: 5.331656455993652 *
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Epoch: 4, Train_Loss: 5.59505558013916, Test_Loss: 5.564050674438477 *
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Epoch: 4, Train_Loss: 5.336130619049072, Test_Loss: 5.582025051116943 *
Epoch: 4, Train_Loss: 5.346883296966553, Test_Loss: 5.328582286834717 *
Epoch: 4, Train_Loss: 5.404754161834717, Test_Loss: 5.333251476287842
Epoch: 4, Train_Loss: 5.990474700927734, Test_Loss: 5.333144187927246 *
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Epoch: 4, Train_Loss: 5.31678581237793, Test_Loss: 5.3488664627075195 *
Epoch: 4, Train_Loss: 5.320712089538574, Test_Loss: 5.321641445159912 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 4
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Epoch: 4, Train_Loss: 5.207539081573486, Test_Loss: 5.26406240463256
Epoch: 4, Train_Loss: 5.160714626312256, Test_Loss: 5.196811676025391 *
Epoch: 4, Train_Loss: 5.139545917510986, Test_Loss: 5.187627792358398 *
Epoch: 4, Train_Loss: 5.153717041015625, Test_Loss: 5.161688327789307 *
Epoch: 4, Train_Loss: 5.151007652282715, Test_Loss: 5.159524917602539 *
Epoch: 4, Train_Loss: 5.149804592132568, Test_Loss: 5.176408767700195
Epoch: 4, Train_Loss: 5.150068759918213, Test_Loss: 5.173658847808838 *
```

```
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 4
Epoch: 4, Train_Loss: 5.136751174926758, Test_Loss: 5.155704498291016 *
Epoch: 4, Train_Loss: 5.1407084465026855, Test_Loss: 5.157125473022461
Epoch: 4, Train_Loss: 5.141118049621582, Test_Loss: 5.1623687744140625
Epoch: 4, Train_Loss: 5.142084121704102, Test_Loss: 5.164050102233887
Epoch: 4, Train_Loss: 5.13555908203125, Test_Loss: 5.180656909942627
Epoch: 4, Train_Loss: 5.138324737548828, Test_Loss: 5.144712448120117 *
Epoch: 4, Train_Loss: 5.156041145324707, Test_Loss: 5.159355640411377
Epoch: 4, Train_Loss: 5.1470818519592285, Test_Loss: 5.205118656158447
Epoch: 4, Train_Loss: 5.144935131072998, Test_Loss: 5.213507652282715
Epoch: 4, Train_Loss: 5.131244659423828, Test_Loss: 5.411107063293457
Epoch: 4, Train_Loss: 5.143246173858643, Test_Loss: 5.14450740814209 *
Epoch: 4, Train_Loss: 5.136915683746338, Test_Loss: 5.26838493347168
Epoch: 4, Train_Loss: 5.132424354553223, Test_Loss: 5.20985221862793 *
Epoch: 4, Train_Loss: 5.1566643714904785, Test_Loss: 5.508997917175293
Epoch: 4, Train_Loss: 5.137120723724365, Test_Loss: 5.154305934906006 *
Epoch: 4, Train_Loss: 5.12939977645874, Test_Loss: 5.280951499938965
Epoch: 4, Train_Loss: 5.128019332885742, Test_Loss: 5.402614116668701
Epoch: 4, Train_Loss: 5.148303985595703, Test_Loss: 5.254220008850098 *
Epoch: 4, Train_Loss: 5.194337368011475, Test_Loss: 5.189310550689697 *
Epoch: 4, Train_Loss: 5.166409969329834, Test_Loss: 5.1289849281311035 *
Epoch: 4, Train_Loss: 5.145209312438965, Test_Loss: 5.138018608093262
Epoch: 4, Train_Loss: 5.123955249786377, Test_Loss: 5.167623043060303
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Epoch: 4, Train_Loss: 5.136552810668945, Test_Loss: 5.624380588531494
Epoch: 4, Train_Loss: 5.119213104248047, Test_Loss: 5.626775741577148
Epoch: 4, Train_Loss: 5.158527374267578, Test_Loss: 5.992882251739502
Epoch: 4, Train_Loss: 5.150647163391113, Test_Loss: 5.300478935241699 *
Epoch: 4, Train_Loss: 5.237015724182129, Test_Loss: 5.742778778076172
Epoch: 4, Train_Loss: 5.21365213394165, Test_Loss: 5.373861789703369 *
Epoch: 4, Train_Loss: 5.1676716804504395, Test_Loss: 5.128570556640625 *
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Epoch: 4, Train_Loss: 5.130618572235107, Test_Loss: 5.20050048828125
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Epoch: 4, Train_Loss: 5.120195388793945, Test_Loss: 5.408466339111328 *
Epoch: 4, Train_Loss: 5.136316299438477, Test_Loss: 7.201038837432861
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Epoch: 4, Train_Loss: 5.101754665374756, Test_Loss: 5.613803863525391 *
Epoch: 4, Train_Loss: 5.111347675323486, Test_Loss: 5.110341548919678 *
Epoch: 4, Train_Loss: 5.126708030700684, Test_Loss: 5.12116003036499
Epoch: 4, Train_Loss: 5.126285076141357, Test_Loss: 5.122150897979736
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Epoch: 5, Train_Loss: 5.095403671264648, Test_Loss: 5.4927873611450195 *
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Epoch: 5, Train_Loss: 5.151620388031006, Test_Loss: 5.599757194519043 *
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Epoch: 5, Train_Loss: 5.122241020202637, Test_Loss: 5.090609550476074 *
Epoch: 5, Train_Loss: 5.090771198272705, Test_Loss: 5.088089942932129 *
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Epoch: 5, Train_Loss: 5.095647811889648, Test_Loss: 5.325833320617676
Epoch: 5, Train_Loss: 5.0753068923950195, Test_Loss: 5.280305862426758 *
```

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Epoch: 5, Train_Loss: 5.259139060974121, Test_Loss: 5.077193737030029 *
Epoch: 5, Train_Loss: 5.180104732513428, Test_Loss: 5.07034158706665 *
Epoch: 5, Train_Loss: 5.089709758758545, Test_Loss: 5.087883949279785
Epoch: 5, Train_Loss: 5.074028491973877, Test_Loss: 5.080405235290527 *
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Epoch: 5, Train_Loss: 5.100989818572998, Test_Loss: 7.741870880126953
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Epoch: 5, Train_Loss: 5.256211757659912, Test_Loss: 5.081383228302002 *
Epoch: 5, Train_Loss: 6.444034576416016, Test_Loss: 5.0876851081848145
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Epoch: 5, Train_Loss: 5.056394100189209, Test_Loss: 5.051738262176514 *
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Epoch: 5, Train_Loss: 19.28364372253418, Test_Loss: 5.095704078674316
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Epoch: 5, Train_Loss: 8.096230506896973, Test_Loss: 5.053483009338379 *
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Epoch: 5, Train_Loss: 5.101247310638428, Test_Loss: 5.318245887756348
```

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Epoch: 5, Train_Loss: 5.856545448303223, Test_Loss: 5.2598185539245605 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 5
Epoch: 5, Train_Loss: 15.709821701049805, Test_Loss: 5.047347545623779 *
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Epoch: 5, Train_Loss: 5.025137424468994, Test_Loss: 5.017702102661133 *
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Epoch: 5, Train_Loss: 5.0139479637146, Test_Loss: 5.225901126861572 *
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Epoch: 5, Train_Loss: 5.013220310211182, Test_Loss: 5.406815052032471 *
Epoch: 5, Train_Loss: 5.011741638183594, Test_Loss: 5.037843227386475 *
Epoch: 5, Train_Loss: 5.015531063079834, Test_Loss: 5.010837554931641 *
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Epoch: 5, Train_Loss: 4.99766206741333, Test_Loss: 5.012436389923096 *
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Epoch: 5, Train_Loss: 4.994367599487305, Test_Loss: 6.155717849731445
Epoch: 5, Train_Loss: 4.9962382316589355, Test_Loss: 5.622776985168457 *
Epoch: 5, Train_Loss: 5.006567478179932, Test_Loss: 5.14320707321167 *
Epoch: 5, Train_Loss: 4.994143486022949, Test_Loss: 5.040678024291992 *
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Epoch: 5, Train_Loss: 5.002387523651123, Test_Loss: 5.065817832946777 *
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Epoch: 5, Train_Loss: 5.143850803375244, Test_Loss: 5.881023406982422 *
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Epoch: 5, Train_Loss: 5.077442169189453, Test_Loss: 4.96897029876709 *
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Epoch: 5, Train_Loss: 4.974311351776123, Test_Loss: 4.961940288543701 *
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Epoch: 5, Train_Loss: 4.99099588394165, Test_Loss: 9.471831321716309
Epoch: 5, Train_Loss: 4.9723801612854, Test_Loss: 4.9757795333862305 *
Epoch: 5, Train_Loss: 4.971492767333984, Test_Loss: 4.962212562561035 *
Epoch: 5, Train_Loss: 4.971844673156738, Test_Loss: 4.957301616668701 *
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Epoch: 5, Train_Loss: 4.9749226570129395, Test_Loss: 4.959904193878174 *
Epoch: 5, Train_Loss: 4.9654459953308105, Test_Loss: 4.962300777435303
Epoch: 5, Train_Loss: 4.950364112854004, Test_Loss: 4.965468406677246
Epoch: 5, Train_Loss: 4.953860759735107, Test_Loss: 4.971663951873779
Epoch: 5, Train_Loss: 4.975160598754883, Test_Loss: 4.964505672454834 *
Epoch: 5, Train_Loss: 4.953152179718018, Test_Loss: 4.95963716506958 *
```

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Epoch: 5, Train_Loss: 4.956916332244873, Test_Loss: 4.966249942779541
Epoch: 5, Train_Loss: 4.993005752563477, Test_Loss: 4.959937572479248 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 6
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 6
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Epoch: 6, Train_Loss: 4.5283708572387695, Test_Loss: 5.053718566894531 *
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Epoch: 6, Train_Loss: 5.151856422424316, Test_Loss: 4.588339805603027 *
Epoch: 6, Train_Loss: 5.957149982452393, Test_Loss: 4.519989490509033 *
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Epoch: 6, Train_Loss: 5.01543664932251, Test_Loss: 4.488385200500488
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Epoch: 6, Train_Loss: 5.0724382400512695, Test_Loss: 4.474135398864746
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Epoch: 6, Train_Loss: 6.458404541015625, Test_Loss: 4.450789928436279 *
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Epoch: 6, Train_Loss: 4.480712890625, Test_Loss: 4.456904888153076
Epoch: 6, Train_Loss: 4.503385543823242, Test_Loss: 4.4503607749938965 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 6
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Epoch: 6, Train_Loss: 4.303944110870361, Test_Loss: 4.320770740509033
Epoch: 6, Train_Loss: 4.302292346954346, Test_Loss: 4.313726425170898 *
Epoch: 6, Train_Loss: 4.296630859375, Test_Loss: 4.323652267456055
Epoch: 6, Train_Loss: 4.3000359535217285, Test_Loss: 4.325606822967529
Epoch: 6, Train_Loss: 4.300085067749023, Test_Loss: 4.31321382522583 *
Epoch: 6, Train_Loss: 4.294127941131592, Test_Loss: 4.29464864730835 *
Epoch: 6, Train_Loss: 4.303426265716553, Test_Loss: 4.330899238586426
Epoch: 6, Train_Loss: 4.312285900115967, Test_Loss: 4.3612470626831055
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Epoch: 7, Train_Loss: 4.319401741027832, Test_Loss: 5.235761642456055 *
Epoch: 7, Train_Loss: 4.322646617889404, Test_Loss: 4.663210587075195 *
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Epoch: 7, Train_Loss: 4.255307674407959, Test_Loss: 5.296547889709473
Epoch: 7, Train_Loss: 4.253472805023193, Test_Loss: 4.513260841369629 *
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Epoch: 7, Train_Loss: 4.4796319007873535, Test_Loss: 4.199930191040039 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 7
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Epoch: 7, Train_Loss: 4.2312235832214355, Test_Loss: 4.117547988891602 *
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Epoch: 8, Train_Loss: 3.8692121505737305, Test_Loss: 3.849505662918091 *
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Epoch: 8, Train_Loss: 3.85664629936218260, Test_Loss: 3.8596742153167725 *
Epoch: 8, Train_Loss: 3.837348222732544, Test_Loss: 3.846587896347046 *
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Epoch: 8, Train_Loss: 3.8358118534088135, Test_Loss: 3.8320796489715576 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 8
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Epoch: 8, Train_Loss: 4.890646934509277, Test_Loss: 3.618574619293213 *
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Epoch: 8, Train_Loss: 3.789947032928467, Test_Loss: 4.401024341583252
Epoch: 8, Train_Loss: 3.6809451580047607, Test_Loss: 4.984476089477539
Epoch: 8, Train_Loss: 5.245161056518555, Test_Loss: 3.663363456726074 *
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Epoch: 8, Train_Loss: 5.423746109008789, Test_Loss: 3.698838233947754
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Epoch: 8, Train_Loss: 4.960688591003418, Test_Loss: 4.746180534362793
Epoch: 8, Train_Loss: 3.6245346069335938, Test_Loss: 3.902949810028076 *
Epoch: 8, Train_Loss: 3.6311659812927246, Test_Loss: 3.605578899383545 *
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Epoch: 8, Train_Loss: 3.765064239501953, Test_Loss: 3.8517982959747314 *
Epoch: 8, Train_Loss: 3.746312379837036, Test_Loss: 3.6846559047698975 *
Epoch: 8, Train_Loss: 3.9237124919891357, Test_Loss: 3.6551480293273926 *
Epoch: 8, Train_Loss: 3.8726160526275635, Test_Loss: 3.607097864151001 *
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Epoch: 8, Train_Loss: 3.936485528945923, Test_Loss: 3.699530601501465 *
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Epoch: 8, Train_Loss: 4.022921085357666, Test_Loss: 3.593780517578125
Epoch: 8, Train_Loss: 3.583695888519287, Test_Loss: 3.593024730682373 *
Epoch: 8, Train_Loss: 3.620218515396118, Test_Loss: 3.60532546043396
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 8
Epoch: 8, Train_Loss: 3.8621134757995605, Test_Loss: 8.648193359375
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 8
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Epoch: 10, Train_Loss: 3.1207642555236816, Test_Loss: 2.9586966037750244
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 10
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Epoch: 10, Train_Loss: 2.875269889831543, Test_Loss: 2.8349769115448 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 10
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Epoch: 10, Train_Loss: 2.791738986968994, Test_Loss: 2.8968536853790283
Epoch: 10, Train_Loss: 2.7582223415374756, Test_Loss: 3.6804330348968506
Epoch: 10, Train_Loss: 2.74272084236145, Test_Loss: 2.941873550415039 *
Epoch: 10, Train_Loss: 2.815185070037842, Test_Loss: 4.84520959854126
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 10
Epoch: 10, Train_Loss: 2.7556395530700684, Test_Loss: 3.3191661834716797 *
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Epoch: 10, Train_Loss: 3.3098185062408447, Test_Loss: 2.8514819145202637 *
Epoch: 10, Train_Loss: 4.145460605621338, Test_Loss: 2.744589328765869 *
Epoch: 10, Train_Loss: 3.6787872314453125, Test_Loss: 2.9247007369995117
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Epoch: 10, Train_Loss: 2.726893663406372, Test_Loss: 2.710890531539917
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Epoch: 10, Train_Loss: 3.3455874919891357, Test_Loss: 2.7011966705322266 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 10
Epoch: 10, Train_Loss: 2.6635255813598633, Test_Loss: 2.6647918224334717 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 12
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 12
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 12
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 12
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Epoch: 13, Train_Loss: 1.8519387245178223, Test_Loss: 1.885563611984253 *
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Epoch: 13, Train_Loss: 1.8377549648284912, Test_Loss: 1.8631047010421753 *
Epoch: 13, Train_Loss: 1.8304738645855713, Test_Loss: 1.854594349861145 *
Epoch: 13, Train_Loss: 1.8305141925811768, Test_Loss: 1.858950138092041
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Epoch: 13, Train_Loss: 1.836880087852478, Test_Loss: 1.8547189235687256 *
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Epoch: 13, Train_Loss: 1.835016131401062, Test_Loss: 1.8495166301727295 *
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Epoch: 13, Train_Loss: 1.8335524797439575, Test_Loss: 1.8696627616882324 *
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Epoch: 13, Train_Loss: 1.8618782758712769, Test_Loss: 1.7856078147888184 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 13
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Epoch: 13, Train_Loss: 1.714914083480835, Test_Loss: 1.735719084739685
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Epoch: 13, Train_Loss: 1.6883931159973145, Test_Loss: 1.720910668373108 *
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Epoch: 13, Train_Loss: 1.7256624698638916, Test_Loss: 1.6968002319335938 *
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Epoch: 13, Train_Loss: 1.74122953414917, Test_Loss: 1.699798583984375
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 13
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 14
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 15
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Epoch: 15, Train_Loss: 1.310878872871399, Test_Loss: 1.3029201030731201 *
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Epoch: 15, Train_Loss: 1.3006267547607422, Test_Loss: 2.0516719818115234
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 15
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Epoch: 15, Train_Loss: 1.3113491535186768, Test_Loss: 2.0255856651397705 *
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Epoch: 15, Train_Loss: 1.6413891315460205, Test_Loss: 1.2523064613342285
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Epoch: 15, Train_Loss: 1.2836145162582397, Test_Loss: 1.2328184843063354 *
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Epoch: 15, Train_Loss: 1.2131178379058838, Test_Loss: 4.5887250900268555
Epoch: 15, Train_Loss: 1.1967324018478394, Test_Loss: 3.4160914421081543 *
Epoch: 15, Train_Loss: 1.188901662826538, Test_Loss: 1.2023276090621948 *
Epoch: 15, Train_Loss: 1.1910408735275269, Test_Loss: 1.2103976011276245
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Epoch: 15, Train_Loss: 1.2020975351333618, Test_Loss: 1.186547875404358 *
Epoch: 15, Train_Loss: 1.243683934211731, Test_Loss: 1.2312216758728027
Epoch: 15, Train_Loss: 1.1939783096313477, Test_Loss: 1.238539695739746
Epoch: 15, Train_Loss: 1.181786298751831, Test_Loss: 1.226266622543335 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 15
Epoch: 15, Train_Loss: 1.1803100109100342, Test_Loss: 1.234216570854187
Epoch: 15, Train_Loss: 1.1978555917739868, Test_Loss: 1.23795485496521
Epoch: 15, Train_Loss: 1.1800975799560547, Test_Loss: 1.2294913530349731 *
Epoch: 15, Train_Loss: 1.1804335117340088, Test_Loss: 1.2397394180297852
Epoch: 15, Train_Loss: 1.2094833850860596, Test_Loss: 1.1936239004135132 *
Epoch: 15, Train_Loss: 1.205830693244934, Test_Loss: 1.2070071697235107
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Epoch: 15, Train_Loss: 1.1785738468170166, Test_Loss: 1.1811550855636597 *
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Epoch: 15, Train_Loss: 1.2259018421173096, Test_Loss: 1.1848297119140625 *
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Epoch: 15, Train_Loss: 1.1727783679962158, Test_Loss: 1.1758112907409668 *
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Epoch: 15, Train_Loss: 1.1755627393722534, Test_Loss: 1.1861989498138428 *
Epoch: 15, Train_Loss: 1.224753737449646, Test_Loss: 1.1737464666366577 *
Epoch: 15, Train_Loss: 1.2143933773040771, Test_Loss: 1.18421471118927
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Epoch: 15, Train_Loss: 1.1964647769927979, Test_Loss: 1.200232744216919 *
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Epoch: 15, Train_Loss: 1.1736187934875488, Test_Loss: 1.2584590911865234
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Epoch: 15, Train_Loss: 1.41389799118042, Test_Loss: 1.2050447463989258 *
Epoch: 15, Train_Loss: 1.3895362615585327, Test_Loss: 1.1896067855774231 *
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Epoch: 15, Train_Loss: 1.1629700660705566, Test_Loss: 1.1786603927612305 *
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Epoch: 15, Train_Loss: 1.1666024923324585, Test_Loss: 1.1804262399673462
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Epoch: 15, Train_Loss: 1.1750425100326538, Test_Loss: 1.1773375272750854 *
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Epoch: 15, Train_Loss: 1.1571835279464722, Test_Loss: 1.1678297519683838 *
Epoch: 15, Train_Loss: 1.1648651361465454, Test_Loss: 1.1728171110153198
Epoch: 15, Train_Loss: 1.2226698398590088, Test_Loss: 1.2310583591461182
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Epoch: 16, Train_Loss: 1.1385297775268555, Test_Loss: 1.1260106563568115 *
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Epoch: 16, Train_Loss: 1.126041293144226, Test_Loss: 1.119265079498291 *
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Epoch: 16, Train_Loss: 1.1280158758163452, Test_Loss: 1.1133999824523926 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 16
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Epoch: 16, Train_Loss: 1.1619863510131836, Test_Loss: 1.518726110458374
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Epoch: 16, Train_Loss: 1.1265000104904175, Test_Loss: 1.1351430416107178 *
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Epoch: 16, Train_Loss: 1.922123670578003, Test_Loss: 1.2445528507232666 *
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Epoch: 16, Train_Loss: 1.0899019241333008, Test_Loss: 1.2834875583648682 *
Epoch: 16, Train_Loss: 1.1484463214874268, Test_Loss: 1.1031817197799683 *
Epoch: 16, Train_Loss: 1.4785163402557373, Test_Loss: 1.0962661504745483 *
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Epoch: 16, Train_Loss: 1.1316766738891602, Test_Loss: 1.4271330833435059
Epoch: 16, Train_Loss: 18.339441299438477, Test_Loss: 1.2267733812332153 *
Epoch: 16, Train_Loss: 1.0935001373291016, Test_Loss: 1.119930624961853 *
Epoch: 16, Train_Loss: 3.264432191848755, Test_Loss: 1.1234642267227173
Epoch: 16, Train_Loss: 2.279970407485962, Test_Loss: 1.0954471826553345 *
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Epoch: 16, Train_Loss: 1.2369805574417114, Test_Loss: 1.0983550548553467 *
Epoch: 16, Train_Loss: 6.906902313232422, Test_Loss: 1.1206464767456055
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Epoch: 16, Train_Loss: 1.081360936164856, Test_Loss: 1.1207135915756226 *
Epoch: 16, Train_Loss: 1.0791256427764893, Test_Loss: 1.2591997385025024
Epoch: 16, Train_Loss: 1.082143783569336, Test_Loss: 1.0934044122695923 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 16
Epoch: 16, Train_Loss: 1.0956783294677734, Test_Loss: 1.1590657234191895
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Epoch: 16, Train_Loss: 1.0388986444473267, Test_Loss: 1.1243280172348022 *
Epoch: 16, Train_Loss: 1.1835609674453735, Test_Loss: 1.1142643690109253 *
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Epoch: 16, Train_Loss: 1.0864789485931396, Test_Loss: 6.6630539894104
Epoch: 16, Train_Loss: 1.0873711109161377, Test_Loss: 1.2615453004837036 *
Epoch: 16, Train_Loss: 1.082190990447998, Test_Loss: 1.1526871919631958 *
Epoch: 16, Train_Loss: 1.0838769674301147, Test_Loss: 1.1394542455673218 *
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Epoch: 16, Train_Loss: 1.0650075674057007, Test_Loss: 1.1430726051330566 *
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Epoch: 16, Train_Loss: 1.0641504526138306, Test_Loss: 1.1522972583770752 *
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Epoch: 16, Train_Loss: 1.0628927946090698, Test_Loss: 1.151084303855896 *
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Epoch: 16, Train_Loss: 1.0768003463745117, Test_Loss: 1.1007410287857056 *
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Epoch: 16, Train_Loss: 4.606687068939209, Test_Loss: 1.1059298515319824 *
Epoch: 16, Train_Loss: 6.124360084533691, Test_Loss: 1.1202809810638428
Epoch: 16, Train_Loss: 1.0942462682724, Test_Loss: 1.1266483068466187
Epoch: 16, Train_Loss: 1.1144402027130127, Test_Loss: 1.12657475471496588 *
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Epoch: 16, Train_Loss: 1.052012324333191, Test_Loss: 1.658766746520996
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Epoch: 16, Train_Loss: 1.025998592376709, Test_Loss: 1.0131525993347168 *
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Epoch: 16, Train_Loss: 1.0151829719543457, Test_Loss: 1.0097012519836426 *
Epoch: 16, Train_Loss: 1.0251350402832031, Test_Loss: 1.008324384689331 *
Epoch: 16, Train_Loss: 1.011011004447937, Test_Loss: 1.0093095302581787
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Epoch: 16, Train_Loss: 1.0149405002593994, Test_Loss: 1.0123034715652466
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Epoch: 17, Train_Loss: 0.9088306427001953, Test_Loss: 0.9246008396148682
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 17
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Epoch: 17, Train_Loss: 0.9679401516914368, Test_Loss: 0.9665324687957764
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 17
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 17
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Epoch: 17, Train_Loss: 0.8309471011161804, Test_Loss: 1.0153526067733765 *
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Epoch: 17, Train_Loss: 0.8471009135246277, Test_Loss: 0.858223021030426 *
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Epoch: 18, Train_Loss: 0.7827190160751343, Test_Loss: 0.8808062076568604 *
Epoch: 18, Train_Loss: 0.8114854097366333, Test_Loss: 0.7816969156265259 *
Epoch: 18, Train_Loss: 0.7927327752113342, Test_Loss: 0.7784587740898132 *
Epoch: 18, Train_Loss: 0.8623881936073303, Test_Loss: 0.8069178462028503
Epoch: 18, Train_Loss: 0.9511364698410034, Test_Loss: 0.9737356305122375
Epoch: 18, Train_Loss: 1.0604510307312012, Test_Loss: 1.4464514255523682
Epoch: 18, Train_Loss: 0.8017968535423279, Test_Loss: 1.1928993463516235 *
Epoch: 18, Train_Loss: 0.8214716911315918, Test_Loss: 2.5967581272125244
Epoch: 18, Train_Loss: 1.0550100803375244, Test_Loss: 1.2246447801589966 *
Epoch: 18, Train_Loss: 1.1155186891555786, Test_Loss: 1.5537135601043701
Epoch: 18, Train_Loss: 0.8187918066978455, Test_Loss: 0.8113008737564087 *
Epoch: 18, Train_Loss: 0.7834368944168091, Test_Loss: 0.7758918404579163 *
Epoch: 18, Train_Loss: 1.164119005203247, Test_Loss: 1.215825080871582
Epoch: 18, Train_Loss: 1.3068106174468994, Test_Loss: 2.2814035415649414
Epoch: 18, Train_Loss: 0.9497867226600647, Test_Loss: 1.0648702383041382 *
Epoch: 18, Train_Loss: 0.7866106629371643, Test_Loss: 0.8646111488342285 *
Epoch: 18, Train_Loss: 0.8013972043991089, Test_Loss: 0.7984456419944763 *
Epoch: 18, Train_Loss: 1.0655276775360107, Test_Loss: 0.9174034595489502
Epoch: 18, Train_Loss: 2.1072237491607666, Test_Loss: 1.1793286800384521
Epoch: 18, Train_Loss: 1.0610103014144897, Test_Loss: 1.0707405313554933 *

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Epoch: 18, Train_Loss: 1.0610193014144897, Test_Loss: 1.0707495212554932 *
Epoch: 18, Train_Loss: 0.8053798079490662, Test_Loss: 1.5594285726547241
Epoch: 18, Train_Loss: 0.7812753319740295, Test_Loss: 1.0564420223236084 *
Epoch: 18, Train_Loss: 0.7790645360946655, Test_Loss: 0.7907113432884216 *
Epoch: 18, Train_Loss: 1.1550309658050537, Test_Loss: 0.7799344658851624 *
Epoch: 18, Train_Loss: 0.8768457174301147, Test_Loss: 0.8106691241264343
Epoch: 18, Train_Loss: 0.7874664664268494, Test_Loss: 0.8015069365501404 *
Epoch: 18, Train_Loss: 0.7787935733795166, Test_Loss: 0.9336793422698975
Epoch: 18, Train_Loss: 0.8026154637336731, Test_Loss: 1.0994415283203125
Epoch: 18, Train_Loss: 15.717905044555664, Test_Loss: 0.9835278391838074 *
Epoch: 18, Train_Loss: 2.752825975418091, Test_Loss: 0.848755955696106 *
Epoch: 18, Train_Loss: 1.8001737594604492, Test_Loss: 0.7737863659858704 *
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Epoch: 18, Train_Loss: 0.8162470459938049, Test_Loss: 0.8381983637809753
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Epoch: 18, Train_Loss: 1.3990700244903564, Test_Loss: 0.8225917220115662 *
Epoch: 18, Train_Loss: 0.8008903861045837, Test_Loss: 0.790626585483551 *
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Epoch: 18, Train_Loss: 0.7666433453559875, Test_Loss: 0.8098308444023132 *
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Epoch: 18, Train_Loss: 0.7763928771018982, Test_Loss: 0.7926521301269531 *
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Epoch: 18, Train_Loss: 0.7687335014343262, Test_Loss: 1.0747865438461304
Epoch: 18, Train_Loss: 0.756108283996582, Test_Loss: 0.8528318405151367 *
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Epoch: 18, Train_Loss: 0.7642384767532349, Test_Loss: 0.7813228964805603 *
Epoch: 18, Train_Loss: 0.7924998998641968, Test_Loss: 0.7882558703422546
Epoch: 18, Train_Loss: 0.7854605913162231, Test_Loss: 0.7859200835227966 *
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Epoch: 18, Train_Loss: 0.8900166749954224, Test_Loss: 0.7720365524291992 *
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Epoch: 18, Train_Loss: 0.7809943556785583, Test_Loss: 3.1335315704345703 *
Epoch: 18, Train_Loss: 0.7685547471046448, Test_Loss: 0.8052980303764343 *
Epoch: 18, Train_Loss: 0.7902579307556152, Test_Loss: 0.823236346244812
Epoch: 18, Train_Loss: 0.76337730884552, Test_Loss: 0.8221194744110107 *
Epoch: 18, Train_Loss: 0.7604081630706787, Test_Loss: 0.7713609337806702 *
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Epoch: 18, Train_Loss: 0.75298672914505, Test_Loss: 0.8558158278465271 *
Epoch: 18, Train_Loss: 0.7516270279884338, Test_Loss: 0.8620271682739258
Epoch: 18, Train_Loss: 0.7550561428070068, Test_Loss: 0.8479458689689636 *
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Epoch: 18, Train_Loss: 0.770352840423584, Test_Loss: 0.7776442766189575 *
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Epoch: 18, Train_Loss: 0.7633456587791443, Test_Loss: 0.7691217064857483 *
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Epoch: 18, Train_Loss: 0.8986197113990784, Test_Loss: 0.7981460094451904 *
Epoch: 18, Train_Loss: 0.7966960072517395, Test_Loss: 0.8285532593727112
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Epoch: 18, Train_Loss: 0.7975921630859375, Test_Loss: 0.85274338722229 *
Epoch: 18, Train_Loss: 0.8129428625106812, Test_Loss: 0.8674190640449524
Epoch: 18, Train_Loss: 0.8736414909362793, Test_Loss: 0.8217682838439941 *
Epoch: 18, Train_Loss: 1.0314311981201172, Test_Loss: 0.8358906507492065
Epoch: 18, Train_Loss: 0.9752333164215088, Test_Loss: 0.7923164367675781 *
Epoch: 18, Train_Loss: 0.8855661749839783, Test_Loss: 0.8036093711853027
Epoch: 18, Train_Loss: 0.7539568543434143, Test_Loss: 0.7870030999183655 *
Epoch: 18, Train_Loss: 0.8807753324508667, Test_Loss: 0.7802016139030457 *
Epoch: 18, Train_Loss: 0.8167146444320679, Test_Loss: 0.8894221186637878
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Epoch: 18, Train_Loss: 0.7983641624450684, Test_Loss: 1.012951374053955 *
Epoch: 18, Train_Loss: 0.7707515954971313, Test_Loss: 0.7533160448074341 *
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Epoch: 18, Train_Loss: 0.877498984336853, Test_Loss: 0.758720874786377 *
Epoch: 18, Train_Loss: 0.7809979915618896, Test_Loss: 0.7670491933822632
Epoch: 18, Train_Loss: 0.7529959082603455, Test_Loss: 0.7617071866989136 *
Epoch: 18, Train_Loss: 0.7470521330833435, Test_Loss: 0.879128634929657
Epoch: 18, Train_Loss: 0.7467740178108215, Test_Loss: 0.8501800894737244 *
Epoch: 18, Train_Loss: 0.9285086989402771, Test_Loss: 0.7493896484375 *
Epoch: 18, Train_Loss: 6.001863479614258, Test_Loss: 0.7980554699897766
Epoch: 18, Train_Loss: 0.751603001336061, Test_Loss: 0.753300420057914 *
```

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Epoch: 18, Train_Loss: 0.751603901386261, Test_Loss: 0.7532204389572144 *
Epoch: 18, Train_Loss: 0.7554815411567688, Test_Loss: 0.7638264894485474
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 18
Epoch: 18, Train_Loss: 0.794918417930603, Test_Loss: 0.7672085165977478
Epoch: 18, Train_Loss: 0.7715171575546265, Test_Loss: 0.7812946438789368
Epoch: 18, Train_Loss: 0.7547787427902222, Test_Loss: 0.8402727246284485
Epoch: 18, Train_Loss: 0.7651625871658325, Test_Loss: 0.8850436806678772
Epoch: 18, Train_Loss: 0.7743874192237854, Test_Loss: 0.8238582015037537 *
Epoch: 18, Train_Loss: 0.7561092972755432, Test_Loss: 0.7598873972892761 *
Epoch: 18, Train_Loss: 0.7782195806503296, Test_Loss: 0.7506385445594788 *
Epoch: 18, Train_Loss: 0.7940759062767029, Test_Loss: 0.7540976405143738
Epoch: 18, Train_Loss: 0.7455803751945496, Test_Loss: 0.7530508041381836 *
Epoch: 18, Train_Loss: 0.7540585398674011, Test_Loss: 0.756262481212616
Epoch: 18, Train_Loss: 0.7786420583724976, Test_Loss: 0.7479868531227112 *
Epoch: 18, Train_Loss: 0.7496628165245056, Test_Loss: 0.7470479011535645 *
Epoch: 18, Train_Loss: 0.7469984292984009, Test_Loss: 0.7523204684257507
Epoch: 18, Train_Loss: 0.7642556428909302, Test_Loss: 0.7467591166496277 *
Epoch: 18, Train_Loss: 0.765506386756897, Test_Loss: 0.7468867897987366
Epoch: 18, Train_Loss: 0.7607877254486084, Test_Loss: 0.7707257270812988
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Epoch: 18, Train_Loss: 0.7468566298484802, Test_Loss: 0.7608028054237366 *
Epoch: 18, Train_Loss: 0.7765091061592102, Test_Loss: 0.7804257273674011
Epoch: 18, Train_Loss: 0.7683645486831665, Test_Loss: 1.1952003240585327
Epoch: 18, Train_Loss: 0.781461238861084, Test_Loss: 0.7711537480354309 *
Epoch: 18, Train_Loss: 0.7715336084365845, Test_Loss: 0.7641510963439941 *
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Epoch: 18, Train_Loss: 0.7638508081436157, Test_Loss: 0.8588703274726868
Epoch: 18, Train_Loss: 0.9181572198867798, Test_Loss: 0.9451775550842285
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Epoch: 18, Train_Loss: 0.7471868395805359, Test_Loss: 0.8053732514381409 *
Epoch: 18, Train_Loss: 0.7372326254844666, Test_Loss: 0.7504662871360779 *
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Epoch: 18, Train_Loss: 0.7810214757919312, Test_Loss: 0.9239235520362854 *
Epoch: 18, Train_Loss: 0.7718989253044128, Test_Loss: 2.9527885913848877
Epoch: 18, Train_Loss: 0.7918401956558228, Test_Loss: 1.285056710243225 *
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Epoch: 18, Train_Loss: 0.73846036195755, Test_Loss: 0.7974560260772705 *
Epoch: 18, Train_Loss: 0.8762799501419067, Test_Loss: 0.7374728322029114 *
Epoch: 18, Train_Loss: 0.9803907871246338, Test_Loss: 0.9947949647903442
Epoch: 18, Train_Loss: 0.9566981196403503, Test_Loss: 2.223378896713257
Epoch: 18, Train_Loss: 0.9071333408355713, Test_Loss: 1.3544217348098755 *
Epoch: 18, Train_Loss: 0.7336100935935974, Test_Loss: 0.8128881454467773 *
Epoch: 18, Train_Loss: 0.7311673760414124, Test_Loss: 0.7486013770103455 *
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Epoch: 18, Train_Loss: 0.745151937007904, Test_Loss: 1.1845974922180176
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Epoch: 18, Train_Loss: 0.7369332313537598, Test_Loss: 1.8564794063568115
Epoch: 18, Train_Loss: 0.7311521172523499, Test_Loss: 1.2538331747055054 *
Epoch: 18, Train_Loss: 0.7313379049301147, Test_Loss: 0.7531240582466125 *
Epoch: 18, Train_Loss: 0.7340612411499023, Test_Loss: 0.7444906234741211 *
Epoch: 18, Train_Loss: 0.747606635093689, Test_Loss: 0.7487360239028931
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Epoch: 18, Train_Loss: 0.8678005933761597, Test_Loss: 0.8122814297676086
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Epoch: 18, Train_Loss: 0.7865000367164612, Test_Loss: 1.1293562650680542 *
Epoch: 18, Train_Loss: 0.8888769149780273, Test_Loss: 0.8541507720947266 *
Epoch: 18, Train_Loss: 0.8593511581420898, Test_Loss: 0.750887393951416 *
Epoch: 18, Train_Loss: 0.8358177542686462, Test_Loss: 0.7495805621147156 *
Epoch: 18, Train_Loss: 0.9091662168502808, Test_Loss: 0.7747913002967834
Epoch: 18, Train_Loss: 1.0754070281982422, Test_Loss: 1.0219907760620117
Epoch: 18, Train_Loss: 0.7636460661888123, Test_Loss: 2.035721778869629
Epoch: 18, Train_Loss: 0.7384876608848572, Test_Loss: 1.3434642553329468 *
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Epoch: 18, Train_Loss: 3.14752197265625, Test_Loss: 0.806359589099884 *
Epoch: 18, Train_Loss: 1.5757012367248535, Test_Loss: 0.7512596845626831 *
Epoch: 18, Train_Loss: 0.7496753931045532, Test_Loss: 0.7371661067008972 *
Epoch: 18, Train_Loss: 0.7572640180587769, Test_Loss: 0.7316830158233643 *
Epoch: 18, Train_Loss: 0.7735230326652527, Test_Loss: 0.736320436000824
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Epoch: 18, Train_Loss: 0.7581200003623962, Test_Loss: 0.7343640923500061 *
Epoch: 18, Train_Loss: 0.8667641282081604, Test_Loss: 0.7848619222640991
Epoch: 18, Train_Loss: 0.7894809246063232, Test_Loss: 0.8486965894699097
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Epoch: 18, Train_Loss: 0.770923912525177, Test_Loss: 0.9868324995040894 *
Epoch: 18, Train_Loss: 0.7441319823265076, Test_Loss: 0.7554416060447693 *
Epoch: 18, Train_Loss: 0.7360321879386902, Test_Loss: 0.7412164807319641 *
Epoch: 18, Train_Loss: 0.7336766719818115, Test_Loss: 0.7453160881996155
Epoch: 18, Train_Loss: 0.7652876973152161, Test_Loss: 0.7434282302856445 *
Epoch: 18, Train_Loss: 0.764384388923645, Test_Loss: 0.7562243938446045
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Epoch: 18, Train_Loss: 0.743354856967926, Test_Loss: 0.7406684160232544 *
Epoch: 18, Train_Loss: 0.7441354990005493, Test_Loss: 0.7235801815986633 *
Epoch: 18, Train_Loss: 0.7299168109893799, Test_Loss: 0.7236539125442505
Epoch: 18, Train_Loss: 0.7232835292816162, Test_Loss: 0.732308566570282
Epoch: 18, Train_Loss: 0.7213282585144043, Test_Loss: 0.7229387760162354 *
Epoch: 18, Train_Loss: 0.7209731340408325, Test_Loss: 0.7264610528945923
Epoch: 18, Train_Loss: 0.7208217978477478, Test_Loss: 0.7242680191993713 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 18
Epoch: 18, Train_Loss: 0.7210710048675537, Test_Loss: 0.7198814153671265 *
Epoch: 18, Train_Loss: 0.722440242767334, Test_Loss: 0.7270931601524353
Epoch: 18, Train_Loss: 0.7227725982666016, Test_Loss: 0.7233545184135437 *
Epoch: 18, Train_Loss: 0.7232707142829895, Test_Loss: 0.7344657182693481
Epoch: 18, Train_Loss: 0.7229318022727966, Test_Loss: 0.7351857423782349
Epoch: 18, Train_Loss: 0.7230427861213684, Test_Loss: 0.727314293384552 *
Epoch: 18, Train_Loss: 0.7378010749816895, Test_Loss: 0.7347472906112671
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Epoch: 18, Train_Loss: 0.739844560623169, Test_Loss: 0.720771312713623 *
Epoch: 18, Train_Loss: 0.7283351421356201, Test_Loss: 0.7208483219146729
Epoch: 18, Train_Loss: 0.7225579023361206, Test_Loss: 0.7188001275062561 *
Epoch: 18, Train_Loss: 0.7188988924026489, Test_Loss: 0.7186002731323242 *
Epoch: 18, Train_Loss: 0.7268520593643188, Test_Loss: 0.7187935709953308
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Epoch: 18, Train_Loss: 0.7141585946083069, Test_Loss: 0.7165291905403137 *
Epoch: 18, Train_Loss: 0.740766167640686, Test_Loss: 0.7174534201622009
Epoch: 18, Train_Loss: 0.779340922832489, Test_Loss: 0.7155572772026062 *
Epoch: 18, Train_Loss: 0.7640308141708374, Test_Loss: 0.7142872214317322 *
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Epoch: 18, Train_Loss: 0.7273836135864258, Test_Loss: 2.1567840576171875 *
Epoch: 18, Train_Loss: 0.717464029788971, Test_Loss: 0.7150975465774536 *
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Epoch: 18, Train_Loss: 0.7883025407791138, Test_Loss: 0.7319658398628235 *
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Epoch: 18, Train_Loss: 0.7134279608726501, Test_Loss: 0.7304049134254456 *
Epoch: 18, Train_Loss: 0.7189083099365234, Test_Loss: 0.7231215834617615 *
Epoch: 18, Train_Loss: 0.724105954170227, Test_Loss: 0.7149943113327026 *
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Epoch: 18, Train_Loss: 0.8181842565536499, Test_Loss: 0.7567740678787231 *
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Epoch: 18, Train_Loss: 0.7721256017684937, Test_Loss: 0.7835672497749329 *
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Epoch: 18, Train_Loss: 0.7072075605392456, Test_Loss: 0.7156251072883606 *
Epoch: 18, Train_Loss: 0.706408679485321, Test_Loss: 0.7290263772010803
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Epoch: 19, Train_Loss: 0.6552309989929199, Test_Loss: 0.6568982005119324 *
Epoch: 19, Train_Loss: 0.6595494151115417, Test_Loss: 0.6592316627502441
Epoch: 19, Train_Loss: 0.6730555295944214, Test_Loss: 0.6653056144714355
Epoch: 19, Train_Loss: 0.6723564863204956, Test_Loss: 0.6746770143508911
Epoch: 19, Train_Loss: 0.6662909984588623, Test_Loss: 0.6639781594276428 *
Epoch: 19, Train_Loss: 0.656563401222229, Test_Loss: 0.6667256355285645
Epoch: 19, Train_Loss: 0.6548671722412109, Test_Loss: 0.6704517006874084
```

```
Epoch: 19, Train_Loss: 0.663711667060852, Test_Loss: 0.664202868938446 *
Epoch: 19, Train_Loss: 0.6927167177200317, Test_Loss: 0.6584814786911011 *
Epoch: 19, Train_Loss: 0.7821427583694458, Test_Loss: 0.6698187589645386
Epoch: 19, Train_Loss: 0.743918776512146, Test_Loss: 0.66540187559727478 *
Epoch: 19, Train_Loss: 0.7498769164085388, Test_Loss: 0.6638705730438232 *
Epoch: 19, Train_Loss: 0.7370195388793945, Test_Loss: 0.6622373461723328 *
Epoch: 19, Train_Loss: 0.7874439818954468, Test_Loss: 0.6670336127281189
Epoch: 19, Train_Loss: 0.7526121735572815, Test_Loss: 0.6742421984672546
Epoch: 19, Train_Loss: 0.7840538024902344, Test_Loss: 0.6810247898101807
Epoch: 19, Train_Loss: 0.8158543109893799, Test_Loss: 0.6618705987930298 *
Epoch: 19, Train_Loss: 0.9854456186294556, Test_Loss: 0.663513720035553
Epoch: 19, Train_Loss: 0.6640170812606812, Test_Loss: 0.6643862724304199
Epoch: 19, Train_Loss: 0.6553899049758911, Test_Loss: 0.6578653454780579 *
Epoch: 19, Train_Loss: 3.4999165534973145, Test_Loss: 0.6551934480667114 *
Epoch: 19, Train_Loss: 1.0665669441223145, Test_Loss: 0.6633552312850952
Epoch: 19, Train_Loss: 0.6773539781570435, Test_Loss: 0.7135939598083496
Epoch: 19, Train_Loss: 0.6978803277015686, Test_Loss: 2.0371031761169434
Epoch: 19, Train_Loss: 0.7034029960632324, Test_Loss: 4.7433953285217285
Epoch: 19, Train_Loss: 0.6760019659996033, Test_Loss: 0.6577523350715637 *
Epoch: 19, Train_Loss: 0.652457058429718, Test_Loss: 0.6501625776290894 *
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Epoch: 19, Train_Loss: 0.690742552280426, Test_Loss: 0.7130252122879028
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Epoch: 19, Train_Loss: 0.6847645044326782, Test_Loss: 0.7690574526786804
Epoch: 19, Train_Loss: 0.6621726751327515, Test_Loss: 0.6630915999412537 *
Epoch: 19, Train_Loss: 0.6700546741485596, Test_Loss: 0.6617390513420105 *
Epoch: 19, Train_Loss: 0.6586307287216187, Test_Loss: 0.6774541139602661
Epoch: 19, Train_Loss: 0.6979628801345825, Test_Loss: 0.6694329977035522 *
Epoch: 19, Train_Loss: 0.6802054047584534, Test_Loss: 0.6546247601509094 *
Epoch: 19, Train_Loss: 0.654639720916748, Test_Loss: 0.7155208587646484
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Epoch: 19, Train_Loss: 0.665082573890686, Test_Loss: 0.7043644189834595 *
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Epoch: 19, Train_Loss: 0.6621131300926208, Test_Loss: 0.6740105152130127 *
Epoch: 19, Train_Loss: 0.652531623840332, Test_Loss: 0.692875862121582
Epoch: 19, Train_Loss: 0.649634838104248, Test_Loss: 0.6661106944084167 *
Epoch: 19, Train_Loss: 0.6475257277488708, Test_Loss: 0.6675406694412231
Epoch: 19, Train_Loss: 0.6469026803970337, Test_Loss: 0.6616531014442444 *
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Epoch: 19, Train_Loss: 0.649003803730011, Test_Loss: 0.6653251051902771 *
Epoch: 19, Train_Loss: 0.6481378078460693, Test_Loss: 0.6596697568893433 *
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Epoch: 19, Train_Loss: 0.6446493864059448, Test_Loss: 0.6699979901313782 *
Epoch: 19, Train_Loss: 0.6499212980270386, Test_Loss: 0.6805227994918823
Epoch: 19, Train_Loss: 0.6600434184074402, Test_Loss: 0.6484519243240356 *
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Epoch: 19, Train_Loss: 0.6573693752288818, Test_Loss: 0.7227727770805359
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Epoch: 19, Train_Loss: 0.6504172086715698, Test_Loss: 0.7852264642715454 *
Epoch: 19, Train_Loss: 0.644565761089325, Test_Loss: 0.669012725353241 *
Epoch: 19, Train_Loss: 0.646045982837677, Test_Loss: 0.7410883903503418
Epoch: 19, Train_Loss: 0.6558990478515625, Test_Loss: 0.8388907313346863
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Epoch: 19, Train_Loss: 0.6454028487205505, Test_Loss: 0.651943027973175 *
Epoch: 19, Train_Loss: 0.642748236656189, Test_Loss: 0.8099597096443176
Epoch: 19, Train_Loss: 0.6424175500869751, Test_Loss: 0.905436635017395
Epoch: 19, Train_Loss: 0.6811676025390625, Test_Loss: 0.6804395318031311 *
Epoch: 19, Train_Loss: 0.6932395696640015, Test_Loss: 0.6948003768920898
Epoch: 19, Train_Loss: 0.6868047714233398, Test_Loss: 0.6441510319709778 *
Epoch: 19, Train_Loss: 0.6544179320335388, Test_Loss: 0.6798626184463501
Epoch: 19, Train_Loss: 0.6417700052261353, Test_Loss: 0.6660768985748291 *
Epoch: 19, Train_Loss: 0.7052928805351257, Test_Loss: 1.303955078125
Epoch: 19, Train_Loss: 0.6466646790504456, Test_Loss: 0.925442099571228 *
Epoch: 19, Train_Loss: 0.6499556303024292, Test_Loss: 1.292640209197998
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Epoch: 19, Train_Loss: 0.6528767943382263, Test_Loss: 0.7729838490486145 *
Epoch: 19, Train_Loss: 0.7601150870323181, Test_Loss: 1.173462152481079
Epoch: 19, Train_Loss: 0.6986434459686279, Test_Loss: 0.7533318400382996 *
Epoch: 19, Train_Loss: 0.6732959151268005, Test_Loss: 0.6497323513031006 *
Epoch: 19, Train_Loss: 0.6489660143852234, Test_Loss: 0.6608536243438721
Epoch: 19, Train_Loss: 0.6579586863517761, Test_Loss: 0.7723315358161926
Epoch: 19, Train_Loss: 0.6442244648933411, Test_Loss: 0.8656895160675049
Epoch: 19, Train_Loss: 0.6430063843727112, Test_Loss: 1.4949955940246582
Epoch: 19, Train_Loss: 0.650309681892395, Test_Loss: 1.3375890254974365 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 19
Epoch: 19, Train_Loss: 0.6563076972961426, Test_Loss: 2.4305686950683594
```

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Epoch: 19, Train_Loss: 0.6778872013092041, Test_Loss: 1.2510474920272827 *
Epoch: 19, Train_Loss: 0.7284833192825317, Test_Loss: 1.1581859588623047 *
Epoch: 19, Train_Loss: 0.6545431017875671, Test_Loss: 0.642957866191864 *
Epoch: 19, Train_Loss: 0.6844132542610168, Test_Loss: 0.6481021642684937
Epoch: 19, Train_Loss: 0.6622500419616699, Test_Loss: 1.2644683122634888
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Epoch: 19, Train_Loss: 0.7365813255310059, Test_Loss: 0.722011148929596 *
Epoch: 19, Train_Loss: 0.866814911365509, Test_Loss: 0.7388133406639099
Epoch: 19, Train_Loss: 0.6401403546333313, Test_Loss: 0.6419244408607483 *
Epoch: 19, Train_Loss: 0.6812006235122681, Test_Loss: 0.8347170948982239
Epoch: 19, Train_Loss: 0.6354458928108215, Test_Loss: 0.953464150428772
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Epoch: 19, Train_Loss: 0.634850025177002, Test_Loss: 1.7327005863189697
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Epoch: 19, Train_Loss: 0.6415067315101624, Test_Loss: 0.6386181116104126 *
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Epoch: 19, Train_Loss: 0.6615319848060608, Test_Loss: 0.6689081192016602 *
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Epoch: 19, Train_Loss: 0.6649947762489319, Test_Loss: 0.8358944654464722 *
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Epoch: 19, Train_Loss: 0.6424802541732788, Test_Loss: 0.6350126266479492 *
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Epoch: 19, Train_Loss: 1.9579861164093018, Test_Loss: 0.6285182237625122 *
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Epoch: 19, Train_Loss: 0.7246326208114624, Test_Loss: 0.641785204410553
Epoch: 19, Train_Loss: 1.1544969081878662, Test_Loss: 0.630557656288147 *
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Epoch: 19, Train_Loss: 0.7234047055244446, Test_Loss: 0.6716053485870361 *
Epoch: 19, Train_Loss: 1.0243169069290161, Test_Loss: 0.7003136277198792
Epoch: 19, Train_Loss: 0.7020729780197144, Test_Loss: 0.6789407730102539 *
Epoch: 19, Train_Loss: 0.7048338651657104, Test_Loss: 0.6682437658309937 *
Epoch: 19, Train_Loss: 0.7262778282165527, Test_Loss: 0.6504278182983398 *
Epoch: 19, Train_Loss: 0.8259304761886597, Test_Loss: 0.664945125579834
Epoch: 19, Train_Loss: 0.8455309271812439, Test_Loss: 0.6553570032119751 *
Epoch: 19, Train_Loss: 0.7853394150733948, Test_Loss: 0.6654877662658691
Epoch: 19, Train_Loss: 0.7534366846084595, Test_Loss: 0.7610927820205688
Epoch: 19, Train_Loss: 0.8067237138748169, Test_Loss: 0.8061771988868713
```

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Epoch: 19, Train_Loss: 0.6789523363113403, Test_Loss: 6.610036373138428
Epoch: 19, Train_Loss: 0.632509171962738, Test_Loss: 0.6651502251625061 *
Epoch: 19, Train_Loss: 0.6237397193908691, Test_Loss: 0.7024905681610107
Epoch: 19, Train_Loss: 0.6340337991714478, Test_Loss: 0.6789230704307556 *
Epoch: 19, Train_Loss: 0.6228622198104858, Test_Loss: 0.6349590420722961 *
Epoch: 19, Train_Loss: 0.6306777596473694, Test_Loss: 0.6562480926513672
Epoch: 19, Train_Loss: 0.65062016248703, Test_Loss: 0.6578565835952759
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Epoch: 19, Train_Loss: 0.6502974033355713, Test_Loss: 0.66908860206604 *
Epoch: 19, Train_Loss: 0.7139142155647278, Test_Loss: 0.6696826219558716
Epoch: 19, Train_Loss: 0.9771625995635986, Test_Loss: 0.6763471364974976
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Epoch: 19, Train_Loss: 0.7114658951759338, Test_Loss: 0.7205383777618408
Epoch: 19, Train_Loss: 0.9780408143997192, Test_Loss: 0.6471549868583679 *
Epoch: 19, Train_Loss: 0.841876745223999, Test_Loss: 0.7042123675346375
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Epoch: 19, Train_Loss: 0.6471841931343079, Test_Loss: 0.7167066335678101
Epoch: 19, Train_Loss: 0.9957982897758484, Test_Loss: 0.7373185157775879
Epoch: 19, Train_Loss: 0.9969419240951538, Test_Loss: 0.6286592483520508 *
Epoch: 19, Train_Loss: 0.6988510489463806, Test_Loss: 0.6292287111282349
Epoch: 19, Train_Loss: 0.6376867294311523, Test_Loss: 0.650072455406189
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 19
Epoch: 19, Train_Loss: 0.6509923338890076, Test_Loss: 0.6598144173622131
Epoch: 19, Train_Loss: 1.3307368755340576, Test_Loss: 0.659615695476532 *
Epoch: 19, Train_Loss: 1.480849266052246, Test_Loss: 0.6549800038337708 *
Epoch: 19, Train_Loss: 0.6690980195999146, Test_Loss: 0.630369246006012 *
Epoch: 19, Train_Loss: 0.6566975116729736, Test_Loss: 0.6235811114311218 *
Epoch: 19, Train_Loss: 0.627240777015686, Test_Loss: 0.630608081817627
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Epoch: 19, Train_Loss: 1.0577499866485596, Test_Loss: 0.6616418361663818 *
Epoch: 19, Train_Loss: 0.6539263129234314, Test_Loss: 0.6378995180130005 *
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Epoch: 19, Train_Loss: 17.22260856628418, Test_Loss: 0.6438401341438293 *
Epoch: 19, Train_Loss: 0.6338676810264587, Test_Loss: 0.8295315504074097
Epoch: 19, Train_Loss: 2.250330924987793, Test_Loss: 0.7885335683822632 *
Epoch: 19, Train_Loss: 1.876404047012329, Test_Loss: 0.643661379814148 *
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Epoch: 19, Train_Loss: 0.7250535488128662, Test_Loss: 0.7226174473762512 *
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Epoch: 19, Train_Loss: 0.659184992313385, Test_Loss: 0.6296010613441467 *
Epoch: 19, Train_Loss: 6.287608623504639, Test_Loss: 0.6434621810913086
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Epoch: 19, Train_Loss: 0.6947113275527954, Test_Loss: 0.8989558219909668 *
Epoch: 19, Train_Loss: 0.6632649302482605, Test_Loss: 1.0311923027038574
Epoch: 19, Train_Loss: 0.67592453956604, Test_Loss: 0.8492773771286011 *
Epoch: 19, Train_Loss: 0.6324761509895325, Test_Loss: 0.9027682542800903
Epoch: 19, Train_Loss: 0.6249227523803711, Test_Loss: 0.7488852143287659 *
Epoch: 19, Train_Loss: 0.6131305694580078, Test_Loss: 0.6634488701820374 *
Epoch: 19, Train_Loss: 0.6119642853736877, Test_Loss: 0.6555042862892151 *
Epoch: 19, Train_Loss: 0.660447359085083, Test_Loss: 0.6540952920913696 *
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Epoch: 19, Train_Loss: 0.6558768153190613, Test_Loss: 1.359487771987915
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Epoch: 19, Train_Loss: 0.7725431323051453, Test_Loss: 2.0125513076782227
Epoch: 19, Train_Loss: 0.6825379729270935, Test_Loss: 1.2505598068237305 *
Epoch: 19, Train_Loss: 0.6440516710281372, Test_Loss: 1.3801047801971436
Epoch: 19, Train_Loss: 0.6229642033576965, Test_Loss: 0.7246415615081787 *
Epoch: 19, Train_Loss: 0.6487118601799011, Test_Loss: 0.6419147253036499 *
Epoch: 19, Train_Loss: 0.6134205460548401, Test_Loss: 0.857779860496521
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Epoch: 19, Train_Loss: 0.6078602075576782, Test_Loss: 0.9347058534622192 *
Epoch: 19, Train_Loss: 0.6096470355987549, Test_Loss: 0.9395692944526672
Epoch: 19, Train_Loss: 0.6083219051361084, Test_Loss: 0.6240894198417664 *
Epoch: 19, Train_Loss: 0.6078760027885437, Test_Loss: 0.6929455995559692
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Epoch: 19, Train_Loss: 0.6303960680961609, Test_Loss: 0.6697131991386414 *
Epoch: 19, Train_Loss: 0.6676463484764099, Test_Loss: 0.620384156703949 *
Epoch: 19, Train_Loss: 1.8490302562713623, Test_Loss: 0.6155790090560913 *
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Epoch: 20, Train_Loss: 7.211377143859863, Test_Loss: 0.668960452079773 *
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Epoch: 21, Train_Loss: 0.6173883676528931, Test_Loss: 0.589099109172821 *
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Epoch: 21, Train_Loss: 0.49820536375045776, Test_Loss: 0.5060672760009766
Epoch: 21, Train_Loss: 0.5168757438659668, Test_Loss: 0.5035597085952759 *
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Epoch: 21, Train_Loss: 0.6583290696144104, Test_Loss: 0.4984479248523712 *
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Epoch: 21, Train_Loss: 0.49093127250671387, Test_Loss: 0.49978286027908325 *
Epoch: 21, Train_Loss: 0.4963822364807129, Test_Loss: 0.5089715719223022
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Epoch: 21, Train_Loss: 0.49262380599975586, Test_Loss: 0.5001817941665649 *
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Epoch: 21, Train_Loss: 0.5715254545211792, Test_Loss: 0.5027675032615662 *
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Epoch: 21, Train_Loss: 0.5597713589668274, Test_Loss: 0.5023545622825623 *
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Epoch: 21, Train_Loss: 0.7503728866577148, Test_Loss: 0.4989641606807709 *
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Epoch: 21, Train_Loss: 1.2799735069274902, Test_Loss: 0.4976675510406494 *
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Epoch: 21, Train_Loss: 0.5679622888565063, Test_Loss: 1.853822946548462 *
Epoch: 21, Train_Loss: 0.5162667036056519, Test_Loss: 0.498123437166214 *
Epoch: 21, Train_Loss: 0.5156270861625671, Test_Loss: 0.5122452974319458
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Epoch: 21, Train_Loss: 0.5099985599517822, Test_Loss: 0.5372039675712585 *
Epoch: 21, Train_Loss: 0.5158814191818237, Test_Loss: 0.504021406173706 *
Epoch: 21, Train_Loss: 0.5193771719932556, Test_Loss: 0.5394514799118042
Epoch: 21, Train_Loss: 0.5105592608451843, Test_Loss: 0.5395110845565796
Epoch: 21, Train_Loss: 0.4960766136646271, Test_Loss: 0.5106751918792725 *
Epoch: 21, Train_Loss: 0.5039196610450745, Test_Loss: 0.520431637763977
Epoch: 21, Train_Loss: 0.5046792030334473, Test_Loss: 0.5465623140335083
Epoch: 21, Train_Loss: 0.5025854706764221, Test_Loss: 0.5380479097366333 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 21
Epoch: 21, Train_Loss: 0.49537740983734l3, Test_Loss: 0.5149063467979431 *
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Epoch: 21, Train_Loss: 0.499248206615448, Test_Loss: 0.5380134582519531 *
Epoch: 21, Train_Loss: 0.5231276154518127, Test_Loss: 0.5300439596176147 *
Epoch: 21, Train_Loss: 0.5138611793518066, Test_Loss: 0.5182654857635498 *
Epoch: 21, Train_Loss: 0.5134300589561462, Test_Loss: 0.5683667659759521
Epoch: 21, Train_Loss: 0.4886398911476135, Test_Loss: 0.5158608555793762 *
Epoch: 21, Train_Loss: 0.4919431805610657, Test_Loss: 0.48842528462409973 *
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Epoch: 21, Train_Loss: 0.4884588420391083, Test_Loss: 0.495759516954422
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Epoch: 21, Train_Loss: 0.487810879945755, Test_Loss: 0.49783486127853394
Epoch: 21, Train_Loss: 0.4872129559516907, Test_Loss: 0.48866018652915955 *
Epoch: 21, Train_Loss: 0.4845355749130249, Test_Loss: 0.49497556686401367
Epoch: 21, Train_Loss: 0.4900575876235962, Test_Loss: 0.4931257367134094 *
Epoch: 21, Train_Loss: 0.4954279959201813, Test_Loss: 0.49413982033729553
Epoch: 21, Train_Loss: 0.49025505781173706, Test_Loss: 0.49801138043403625
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Epoch: 21, Train_Loss: 0.4922918379306793, Test_Loss: 0.7643495798110962
Epoch: 21, Train_Loss: 0.4984772205352783, Test_Loss: 0.4981861710548401 *
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Epoch: 21, Train_Loss: 0.4836954176425934, Test_Loss: 0.5909271240234375
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Epoch: 21, Train_Loss: 0.5546709299087524, Test_Loss: 0.5047523379325867 *
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Epoch: 21, Train_Loss: 0.5149411559104919, Test_Loss: 0.48755964636802673 *
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Epoch: 21, Train_Loss: 0.5380080938339233, Test_Loss: 0.48919135332107544 *
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Epoch: 21, Train_Loss: 3.0582737922668457, Test_Loss: 0.5913227200508118
Epoch: 21, Train_Loss: 0.5309464335441589, Test_Loss: 0.8798179626464844
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Epoch: 21, Train_Loss: 0.48567885160446167, Test_Loss: 0.7160820960998535 *
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Epoch: 21, Train_Loss: 0.4836419207855225, Test_Loss: 5.052222728729248 *
Epoch: 21, Train_Loss: 0.5590717196464539, Test_Loss: 0.5120274424552917 *
Epoch: 21, Train_Loss: 1.4605752229690552, Test_Loss: 0.48612985014915466 *
Epoch: 21, Train_Loss: 1.5994218587875366, Test_Loss: 0.49355971813201904
Epoch: 21, Train_Loss: 0.6108356714248657, Test_Loss: 0.48400092124938965 *
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Epoch: 21, Train_Loss: 2.0176496505737305, Test_Loss: 0.5011873841285706
Epoch: 21, Train_Loss: 1.832911491394043, Test_Loss: 0.5914695262908936
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 21
Epoch: 21, Train_Loss: 0.49610742926597595, Test_Loss: 0.5444084405899048 *
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Epoch: 21, Train_Loss: 0.9177799224853516, Test_Loss: 0.49859243631362915 *
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Epoch: 21, Train_Loss: 0.5092588067054749, Test_Loss: 0.5117926597595215 *
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Epoch: 21, Train_Loss: 0.5108916163444519, Test_Loss: 0.5018019080162048 *
Epoch: 21, Train_Loss: 0.8171156048774719, Test_Loss: 0.5308886766433716
Epoch: 21, Train_Loss: 0.8469343781471252, Test_Loss: 0.5160074830055237 *
Epoch: 21, Train_Loss: 0.7045761346817017, Test_Loss: 0.47464871406555176 *
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Epoch: 21, Train_Loss: 0.4904477000236511, Test_Loss: 0.4713706076145172 *
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Epoch: 21, Train_Loss: 0.703700065612793, Test_Loss: 0.510886549949646
Epoch: 21, Train_Loss: 0.7669385671615601, Test_Loss: 0.47675102949142456 *
Epoch: 22, Train_Loss: 0.4781360328197479, Test_Loss: 0.4895741641521454 *
Epoch: 22, Train_Loss: 0.5071028470993042, Test_Loss: 0.8275221586227417
Epoch: 22, Train_Loss: 0.5495887398719788, Test_Loss: 0.5090675950050354 *
Epoch: 22, Train_Loss: 5.3162522315979, Test_Loss: 0.49483171105384827 *
Epoch: 22, Train_Loss: 12.416013717651367, Test_Loss: 0.573174774646759
Epoch: 22, Train_Loss: 0.9789637923240662, Test_Loss: 0.703800618648529
Epoch: 22, Train_Loss: 1.61366605758667, Test_Loss: 0.5535379648208618 *
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Epoch: 22, Train_Loss: 0.8608983159065247, Test_Loss: 0.5173686742782593 *
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Epoch: 22, Train_Loss: 7.972777843475342, Test_Loss: 0.5460931062698364 *
Epoch: 22, Train_Loss: 2.54455828666687, Test_Loss: 0.5407280921936035 *
Epoch: 22, Train_Loss: 0.49443332380584717, Test_Loss: 0.49811121821403503 *
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Epoch: 22, Train_Loss: 0.4904874563217163, Test_Loss: 0.7376614809036255 *
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Epoch: 22, Train_Loss: 0.4814131259918213, Test_Loss: 0.7635332345962524 *
Epoch: 22, Train_Loss: 0.4847993850708008, Test_Loss: 0.5911019444465637 *
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Epoch: 22, Train_Loss: 0.5022032856941223, Test_Loss: 0.8994715213775635 *
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Epoch: 22, Train_Loss: 0.4589096009731293, Test_Loss: 0.5636709928512573 *
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Epoch: 22, Train_Loss: 0.4712800681591034, Test_Loss: 0.5362732410430908 *
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Epoch: 22, Train_Loss: 0.46122506260871887, Test_Loss: 0.49279507994651794 *
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Epoch: 22, Train_Loss: 0.5429220199584961, Test_Loss: 0.49407193064689636 *
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Epoch: 22, Train_Loss: 0.47094884514808655, Test_Loss: 0.5162653923034668
Epoch: 22, Train_Loss: 0.5202561616897583, Test_Loss: 0.491466760635376 *
Epoch: 22, Train_Loss: 0.6629397869110107, Test_Loss: 0.4792036712169647 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 22
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Epoch: 22, Train_Loss: 0.4795806109905243, Test_Loss: 0.4891323447227478
Epoch: 22, Train_Loss: 0.6229406595230103, Test_Loss: 0.45669111609458923 *
Epoch: 22, Train_Loss: 0.8886468410491943, Test_Loss: 0.46725890040397644
Epoch: 22, Train_Loss: 0.4537373483181, Test_Loss: 0.5581057071685791
Epoch: 22, Train_Loss: 0.4687524139881134, Test_Loss: 0.6354264616966248
Epoch: 22, Train_Loss: 0.4842800498008728, Test_Loss: 0.5355461239814758 *
Epoch: 22, Train_Loss: 0.49242454767227173, Test_Loss: 0.4984048008918762 *
Epoch: 22, Train_Loss: 0.5644189119338989, Test_Loss: 0.9273940324783325
Epoch: 22, Train_Loss: 0.6669008731842041, Test_Loss: 0.580051064491272 *
Epoch: 22, Train_Loss: 0.5866382122039795, Test_Loss: 0.4714803695678711 *
Epoch: 22, Train_Loss: 0.5008081197738647, Test_Loss: 0.5548065900802612
Epoch: 22, Train_Loss: 0.5519260168075562, Test_Loss: 0.5335673093795776 *
Epoch: 22, Train_Loss: 0.5737794637680054, Test_Loss: 0.6031783819198608
Epoch: 22, Train_Loss: 0.6797138452529907, Test_Loss: 0.5247650146484375 *
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Epoch: 22, Train_Loss: 0.48782891035079956, Test_Loss: 0.452510267496109 *
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Epoch: 22, Train_Loss: 0.533165454864502, Test_Loss: 0.8476129770278931
Epoch: 22, Train_Loss: 0.45655202865600586, Test_Loss: 0.8677867650985718
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Epoch: 22, Train_Loss: 0.4434024691581726, Test_Loss: 0.8726222515106201 *
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Epoch: 22, Train_Loss: 0.601561427116394, Test_Loss: 0.7991195917129517
Epoch: 22, Train_Loss: 0.7135462760925293, Test_Loss: 0.7815618515014648 *
Epoch: 22, Train_Loss: 0.4643741250038147, Test_Loss: 0.7847151756286621
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 22
Epoch: 22, Train_Loss: 0.4829639494419098, Test_Loss: 2.4127819538116455
Epoch: 22, Train_Loss: 0.6319690346717834, Test_Loss: 0.8648279905319214 *
Epoch: 22, Train_Loss: 0.5720254778862, Test_Loss: 1.1370152235031128
Epoch: 22, Train_Loss: 0.5342741012573242, Test_Loss: 0.4968613386154175 *
Epoch: 22, Train_Loss: 0.4616592526435852, Test_Loss: 0.4508020877838135 *
Epoch: 22, Train_Loss: 0.777371346950531, Test_Loss: 0.7963235378265381
Epoch: 22, Train_Loss: 0.776535153388977, Test_Loss: 1.7846894264221191
Epoch: 22, Train_Loss: 0.5910213589668274, Test_Loss: 0.8822187781333923 *
Epoch: 22, Train_Loss: 0.459719181060791, Test_Loss: 0.5130359530448914 *
Epoch: 22, Train_Loss: 0.455573707818985, Test_Loss: 0.5024539232254028 *
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Epoch: 22, Train_Loss: 0.7605535984039307, Test_Loss: 0.6244247555732727 *
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Epoch: 22, Train_Loss: 0.4546542763710022, Test_Loss: 0.6799887418746948 *
Epoch: 22, Train_Loss: 0.44457319378852844, Test_Loss: 0.45890939235687256 *
Epoch: 22, Train_Loss: 0.7700494527816772, Test_Loss: 0.47611990571022034
Epoch: 22, Train_Loss: 0.5898790955543518, Test_Loss: 0.5992310047149658
Epoch: 22, Train_Loss: 0.4571794867515564, Test_Loss: 0.5248668789863586 *
Epoch: 22, Train_Loss: 0.4540766179561615, Test_Loss: 0.5980785489082336
Epoch: 22, Train_Loss: 0.5215890407562256, Test_Loss: 0.7067473530769348
Epoch: 22, Train_Loss: 13.867669105529785, Test_Loss: 0.6337944269180298 *
Epoch: 22, Train_Loss: 3.584862232208252, Test_Loss: 0.5289586782455444 *
Epoch: 22, Train_Loss: 1.2635095119476318, Test_Loss: 0.44668224453926086 *
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Epoch: 22, Train_Loss: 1.1501450538635254, Test_Loss: 0.9958294630050659
Epoch: 22, Train_Loss: 9.331817626953125, Test_Loss: 0.8315780162811279 *
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Epoch: 22, Train_Loss: 0.4575555920600891, Test_Loss: 0.46238645911216736 *
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Epoch: 22, Train_Loss: 0.5517390966415405, Test_Loss: 0.5459734201431274 *
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Epoch: 22, Train_Loss: 0.6520102620124817, Test_Loss: 0.4688633680343628 *
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Epoch: 22, Train_Loss: 0.5067567229270935, Test_Loss: 0.4436414837837219 *
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Epoch: 22, Train_Loss: 0.4363551437854767, Test_Loss: 0.4381817579269409 *
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Epoch: 22, Train_Loss: 0.427489310503006, Test_Loss: 0.5323710441589355 *
Epoch: 22, Train_Loss: 0.5478419065475464, Test_Loss: 0.43026113510131836 *
Epoch: 22, Train_Loss: 5.63987922668457, Test_Loss: 0.46764880418777466
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Epoch: 22, Train_Loss: 0.43484434485435486, Test_Loss: 0.4363781213760376 *
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Epoch: 22, Train_Loss: 0.435606986284256, Test_Loss: 0.4737233817577362 *
Epoch: 22, Train_Loss: 0.4371030628681183, Test_Loss: 0.45077380537986755 *
Epoch: 22, Train_Loss: 0.44714140892028881, Test_Loss: 0.42991459369659424 *
Epoch: 22, Train_Loss: 0.4501287043094635, Test_Loss: 0.4341277778148651
Epoch: 22, Train_Loss: 0.4252848923206329, Test_Loss: 0.4299229085445404 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 22
Epoch: 22, Train_Loss: 0.4309627413749695, Test_Loss: 0.43146249651908875
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Epoch: 22, Train_Loss: 0.43165382742881775, Test_Loss: 0.4309982359409332 *
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Epoch: 22, Train_Loss: 0.4441341161727905, Test_Loss: 0.442517369985580444 *
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Epoch: 22, Train_Loss: 0.46607154607772827, Test_Loss: 0.45256713032722473 *
Epoch: 22, Train_Loss: 0.4534044563770294, Test_Loss: 0.44819456338882446 *
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Epoch: 22, Train_Loss: 0.4227421283721924, Test_Loss: 0.45634621381759644 *
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Epoch: 23, Train_Loss: 0.42920753359794617, Test_Loss: 0.9134315252304077
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Epoch: 23, Train_Loss: 2.170327663421631, Test_Loss: 0.503114640712738 *
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Epoch: 23, Train_Loss: 0.4362781345844269, Test_Loss: 0.42352086305618286 *
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Epoch: 23, Train_Loss: 0.41143235385417938, Test_Loss: 0.4174281358718872 *
Epoch: 23, Train_Loss: 0.41626542806625366, Test_Loss: 0.4365665316581726
Epoch: 23, Train_Loss: 0.42206698656082153, Test_Loss: 0.41491296887397766 *
Epoch: 23, Train_Loss: 0.4334721565246582, Test_Loss: 0.42054593563079834
Epoch: 23, Train_Loss: 0.41676193475723267, Test_Loss: 0.4196232557296753 *
Epoch: 23, Train_Loss: 0.4168131351470947, Test_Loss: 0.41955628991127014 *
Epoch: 23, Train_Loss: 0.4153623878955841, Test_Loss: 0.41495344042778015 *
Epoch: 23, Train_Loss: 0.4348524808883667, Test_Loss: 0.4180668294429779
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Epoch: 23, Train_Loss: 0.4449767768383026, Test_Loss: 0.4190160036087036 *
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Epoch: 23, Train_Loss: 0.413878470659256, Test_Loss: 0.46817880868911743
Epoch: 23, Train_Loss: 0.4589556157588959, Test_Loss: 4.051634788513184
Epoch: 23, Train_Loss: 0.43094873428344727, Test_Loss: 2.5115976333618164 *
Epoch: 23, Train_Loss: 0.41695964336395264, Test_Loss: 0.4175606667995453 *
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Epoch: 23, Train_Loss: 0.43641480803489685, Test_Loss: 0.4646048843860626
Epoch: 23, Train_Loss: 0.5156670808792114, Test_Loss: 0.4550887942314148 *
Epoch: 23, Train_Loss: 0.48126327991485596, Test_Loss: 0.43429023027420044 *
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Epoch: 23, Train_Loss: 0.42129313945770264, Test_Loss: 0.4180678129196167 *
Epoch: 23, Train_Loss: 0.44007739424705505, Test_Loss: 0.4381033778190613
Epoch: 23, Train_Loss: 0.4153040647506714, Test_Loss: 0.4329925775527954 *
Epoch: 23, Train_Loss: 0.4275922477245331, Test_Loss: 0.4301837384700775 *
Epoch: 23, Train_Loss: 0.42029064893722534, Test_Loss: 0.41820278763771057 *
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Epoch: 23, Train_Loss: 0.5140710473060608, Test_Loss: 0.4620513617992401 *
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Epoch: 23, Train_Loss: 0.46012812852859497, Test_Loss: 0.467205673456192 *
Epoch: 23, Train_Loss: 0.4292224049568176, Test_Loss: 0.44942355155944824 *
Epoch: 23, Train_Loss: 0.43141233921051025, Test_Loss: 0.4288505017757416 *
Epoch: 23, Train_Loss: 0.4986070394515991, Test_Loss: 0.4172027111053467 *
Epoch: 23, Train_Loss: 0.6068308353424072, Test_Loss: 0.42284438014030457
Epoch: 23, Train_Loss: 0.41874995827674866, Test_Loss: 0.4224238395690918 *
Epoch: 23, Train_Loss: 0.4432794749736786, Test_Loss: 0.42530232667922974
Epoch: 23, Train_Loss: 0.412132501602172853, Test_Loss: 0.42238399386405945 *
Epoch: 23, Train_Loss: 0.4121493995189667, Test_Loss: 0.41784143447875977 *
Epoch: 23, Train_Loss: 0.416824072599411, Test_Loss: 0.42387834191322327
Epoch: 23, Train_Loss: 0.42075809836387634, Test_Loss: 0.42149218916893005 *
```

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Epoch: 23, Train_Loss: 0.41852492094039917, Test_Loss: 0.42293643951416016
Epoch: 23, Train_Loss: 0.4222656190395355, Test_Loss: 0.42276760935783386 *
Epoch: 23, Train_Loss: 0.42181864380836487, Test_Loss: 0.43720510601997375
Epoch: 23, Train_Loss: 0.4204215407371521, Test_Loss: 0.4511895775794983
Epoch: 23, Train_Loss: 0.4202921688556671, Test_Loss: 0.7177188396453857
Epoch: 23, Train_Loss: 0.4198601245880127, Test_Loss: 0.42512083053588867 *
Epoch: 23, Train_Loss: 0.412706196308136, Test_Loss: 0.45478156208992004
Epoch: 23, Train_Loss: 0.409829318523407, Test_Loss: 0.5784083008766174
Epoch: 23, Train_Loss: 0.4259926378726959, Test_Loss: 0.6773310899734497
Epoch: 23, Train_Loss: 0.4270751178264618, Test_Loss: 0.5106906890869141 *
Epoch: 23, Train_Loss: 0.4397251009941101, Test_Loss: 0.4583955705165863 *
Epoch: 23, Train_Loss: 0.41098496317863464, Test_Loss: 0.5059229135513306
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 23
Epoch: 23, Train_Loss: 0.43854960799217224, Test_Loss: 0.5777067542076111
Epoch: 23, Train_Loss: 0.4383487105369568, Test_Loss: 0.426777184009552 *
Epoch: 23, Train_Loss: 0.4368758797645569, Test_Loss: 0.4516583979129791
Epoch: 23, Train_Loss: 0.41812819242477417, Test_Loss: 0.41341432929039 *
Epoch: 23, Train_Loss: 0.4320186674594879, Test_Loss: 0.4726027250289917
Epoch: 23, Train_Loss: 0.40901628136634827, Test_Loss: 0.502436637878418
Epoch: 23, Train_Loss: 0.42354023456573486, Test_Loss: 0.9715688228607178
Epoch: 23, Train_Loss: 0.4201221764087677, Test_Loss: 0.5735112428665161 *
Epoch: 23, Train_Loss: 0.4294735789299011, Test_Loss: 1.0830004215240479
Epoch: 23, Train_Loss: 1.4934090375900269, Test_Loss: 0.9030404686927795 *
Epoch: 23, Train_Loss: 4.522406101226807, Test_Loss: 0.6328896284103394 *
Epoch: 23, Train_Loss: 0.7669130563735962, Test_Loss: 0.5967867374420166 *
Epoch: 23, Train_Loss: 0.4389832317829132, Test_Loss: 0.4397318363189697 *
Epoch: 23, Train_Loss: 0.4218914210796356, Test_Loss: 0.43134167790412903 *
Epoch: 23, Train_Loss: 0.5441702604293823, Test_Loss: 0.43232429027557373
Epoch: 23, Train_Loss: 0.49048468470573425, Test_Loss: 0.6118682622909546
Epoch: 23, Train_Loss: 0.4245082139968872, Test_Loss: 0.8498954772949219
Epoch: 23, Train_Loss: 0.40974557399749756, Test_Loss: 0.782448410987854 *
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Epoch: 23, Train_Loss: 0.43164756894111633, Test_Loss: 1.4116015434265137 *
Epoch: 23, Train_Loss: 0.41633668541908264, Test_Loss: 0.9792252779006958 *
Epoch: 23, Train_Loss: 0.7269091606140137, Test_Loss: 0.6466319561004639 *
Epoch: 23, Train_Loss: 1.379237174987793, Test_Loss: 0.42721179127693176 *
Epoch: 23, Train_Loss: 1.2184261083602905, Test_Loss: 0.4764149487018585
Epoch: 23, Train_Loss: 0.5008402466773987, Test_Loss: 1.3392759561538696
Epoch: 23, Train_Loss: 0.5733815431594849, Test_Loss: 1.3093894720077515 *
Epoch: 23, Train_Loss: 2.3814375400543213, Test_Loss: 0.47408148646354675 *
Epoch: 23, Train_Loss: 1.1887047290802002, Test_Loss: 0.4788285791873932
Epoch: 23, Train_Loss: 0.41331353783607483, Test_Loss: 0.45000243186950684 *
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Epoch: 23, Train_Loss: 0.8830633759498596, Test_Loss: 0.5877968072891235 *
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Epoch: 23, Train_Loss: 0.684424638748169, Test_Loss: 0.7182379364967346
Epoch: 23, Train_Loss: 0.4211452603340149, Test_Loss: 0.4997790455818176 *
Epoch: 23, Train_Loss: 0.441861093044281, Test_Loss: 0.8458337187767029
Epoch: 23, Train_Loss: 0.4556032717227936, Test_Loss: 0.6720453500747681 *
Epoch: 23, Train_Loss: 0.45971792936325073, Test_Loss: 0.4748477637767792 *
Epoch: 23, Train_Loss: 0.50431227684021, Test_Loss: 0.4390754997730255 *
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Epoch: 23, Train_Loss: 0.6204253435134888, Test_Loss: 0.47615063190460205 *
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Epoch: 23, Train_Loss: 0.45654430985450745, Test_Loss: 0.4376319646835327 *
Epoch: 23, Train_Loss: 0.4928531348705292, Test_Loss: 0.4566211700439453
Epoch: 23, Train_Loss: 0.46683651208877563, Test_Loss: 0.4512321650981903 *
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Epoch: 23, Train_Loss: 0.4885757565498352, Test_Loss: 0.5060311555862427 *
Epoch: 23, Train_Loss: 0.6395741701126099, Test_Loss: 0.4967629313468933 *
Epoch: 23, Train_Loss: 0.5689730048179626, Test_Loss: 0.49675628542900085 *
Epoch: 23, Train_Loss: 0.4422110617160797, Test_Loss: 0.5621327757835388
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Epoch: 23, Train_Loss: 0.5434262156486511, Test_Loss: 0.512786328792572 *
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Epoch: 23, Train_Loss: 0.4521177113056183, Test_Loss: 0.429042786359787 *
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Epoch: 23, Train_Loss: 0.42816174030303955, Test_Loss: 0.4306586682796478 *
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Epoch: 23, Train_Loss: 1.0859601497650146, Test_Loss: 0.4616636037826538
Epoch: 23, Train_Loss: 0.5500366687774658, Test_Loss: 0.5028075575828552
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Epoch: 23, Train_Loss: 0.4159338176250458, Test_Loss: 0.4362795948982239
Epoch: 23, Train_Loss: 0.7401171922683716, Test_Loss: 0.4158822000026703 *
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Epoch: 23, Train_Loss: 0.4282335042953491, Test_Loss: 0.429961373925209045 *
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Epoch: 23, Train_Loss: 0.5225059986114502, Test_Loss: 0.4155585467815399 *
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Epoch: 23, Train_Loss: 0.4254598617553711, Test_Loss: 0.5221070647239685 *
Epoch: 23, Train_Loss: 0.42743536829948425, Test_Loss: 0.49643465876579285 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 23
Epoch: 23, Train_Loss: 0.5221724510192871, Test_Loss: 0.5393041968345642
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Epoch: 23, Train_Loss: 0.4332748055458069, Test_Loss: 0.509547233581543 *
Epoch: 23, Train_Loss: 0.5285393595695496, Test_Loss: 0.45942944288253784 *
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Epoch: 23, Train_Loss: 0.407089501619339, Test_Loss: 0.609656035900116
Epoch: 23, Train_Loss: 0.46474146842956543, Test_Loss: 0.4708462655544281 *
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Epoch: 23, Train_Loss: 0.4027692973613739, Test_Loss: 0.44327330589294434
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Epoch: 23, Train_Loss: 0.4088456630706787, Test_Loss: 0.4173157215118408 *
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Epoch: 23, Train_Loss: 0.4201348125934601, Test_Loss: 0.41183197498321533 *
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Epoch: 23, Train_Loss: 0.4644438624382019, Test_Loss: 0.4886232614517212 *
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Epoch: 23, Train_Loss: 0.5424990653991699, Test_Loss: 0.634806215763092
Epoch: 23, Train_Loss: 0.48276492953300476, Test_Loss: 0.5150141716003418 *
Epoch: 23, Train_Loss: 0.40322256088256836, Test_Loss: 0.4759965240955353 *
Epoch: 23, Train_Loss: 0.47360238432884216, Test_Loss: 0.4156205356121063 *
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Epoch: 23, Train_Loss: 0.42394593358039856, Test_Loss: 0.9720332622528076
Epoch: 23, Train_Loss: 0.4255702793598175, Test_Loss: 0.7653931379318237 *
Epoch: 23, Train_Loss: 0.48177558183670044, Test_Loss: 0.6132985949516296 *
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Epoch: 23, Train_Loss: 0.42173469066619873, Test_Loss: 0.9509772658348083
Epoch: 23, Train_Loss: 0.39756619930267334, Test_Loss: 0.5154194235801697 *
Epoch: 23, Train_Loss: 0.39537712931632996, Test_Loss: 0.4641883373260498 *
Epoch: 23, Train_Loss: 0.39416995644569397, Test_Loss: 0.40844425559043884 *
Epoch: 23, Train_Loss: 0.3963087797164917, Test_Loss: 0.4200078845024109
Epoch: 23, Train_Loss: 0.3963821828365326, Test_Loss: 0.416731059551239 *
Epoch: 23, Train_Loss: 0.9295821189880371, Test_Loss: 0.4329693615436554
Epoch: 23, Train_Loss: 3.6267919540405273, Test_Loss: 0.4321483075618744 *
Epoch: 23, Train_Loss: 0.4102381467819214, Test_Loss: 0.4415338635444641
Epoch: 23, Train_Loss: 0.40395715832710266, Test_Loss: 0.4099026322364807 *
Epoch: 23, Train_Loss: 0.3984920382499695, Test_Loss: 0.45291420817375183
Epoch: 23, Train_Loss: 0.3963950574398041, Test_Loss: 0.7510960102081299
Epoch: 23, Train_Loss: 0.3982257843017578, Test_Loss: 0.5008484125137329 *
Epoch: 23, Train_Loss: 0.3980976641178131, Test_Loss: 0.6382613778114319
Epoch: 23, Train_Loss: 0.3943343460559845, Test_Loss: 0.43537309765815735 *
Epoch: 23, Train_Loss: 0.3955223560333252, Test_Loss: 0.43925440311431885
Epoch: 23, Train_Loss: 0.39633697271347046, Test_Loss: 0.428926944732666 *
Epoch: 23, Train_Loss: 0.4261149764060974, Test_Loss: 0.44257986545562744
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 23
Epoch: 23, Train_Loss: 0.4260481297969818, Test_Loss: 0.4801045358181
Epoch: 23, Train_Loss: 0.4360333979129791, Test_Loss: 4.593149185180664
Epoch: 23, Train_Loss: 0.42548397183418274, Test_Loss: 0.784783124923706 *
Epoch: 23, Train_Loss: 0.40010708570480347, Test_Loss: 0.4214133620262146 *
Epoch: 23, Train_Loss: 0.5031068921089172, Test_Loss: 0.410218745470047 *
Epoch: 23, Train_Loss: 0.5110476016998291, Test_Loss: 0.40269994735717773 *
Epoch: 23, Train_Loss: 0.5162902474403381, Test_Loss: 0.40279778838157654
Epoch: 23, Train_Loss: 0.47110050916671753, Test_Loss: 0.4259488582611084
Epoch: 23, Train_Loss: 0.41954344511032104, Test_Loss: 0.48802345991134644
Epoch: 23, Train_Loss: 0.40292638540267944, Test_Loss: 0.41848570108413696 *
Epoch: 23, Train_Loss: 0.3957883417606354, Test_Loss: 0.4661078155040741
Epoch: 23, Train_Loss: 0.39605623483657837, Test_Loss: 0.44802412390708923 *
Epoch: 23, Train_Loss: 0.4054000675678253, Test_Loss: 0.5109245181083679
Epoch: 23, Train_Loss: 0.400073766708374, Test_Loss: 0.4346229135990143 *
Epoch: 23, Train_Loss: 0.3953550159931183, Test_Loss: 0.42726340889930725 *
Epoch: 23, Train_Loss: 0.39249759912490845, Test_Loss: 0.46826353669166565
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Epoch: 23, Train_Loss: 0.39249759912490043, Test_Loss: 0.4002039900100909
Epoch: 23, Train_Loss: 0.4005395174026489, Test_Loss: 0.4257888197898865 *
Epoch: 23, Train_Loss: 0.4344879388809204, Test_Loss: 0.4057908058166504 *
Epoch: 23, Train_Loss: 0.4806176424026489, Test_Loss: 0.4202263355255127
Epoch: 23, Train_Loss: 0.4246090054512024, Test_Loss: 0.4441002607345581
Epoch: 23, Train_Loss: 0.44607505202293396, Test_Loss: 0.4396004378795624 *
Epoch: 23, Train_Loss: 0.4598717987537384, Test_Loss: 0.4427371919155121
Epoch: 23, Train_Loss: 0.4777258634567261, Test_Loss: 0.4451937775476074
Epoch: 23, Train_Loss: 0.5289928317070007, Test_Loss: 0.4745252728462219
Epoch: 23, Train_Loss: 0.4912460446357727, Test_Loss: 0.46347683668136597 *
Epoch: 23, Train_Loss: 0.5176650285720825, Test_Loss: 0.45289963483810425 *
Epoch: 23, Train_Loss: 0.6883347630500793, Test_Loss: 0.40841391682624817 *
Epoch: 23, Train_Loss: 0.40310588479042053, Test_Loss: 0.42912286520004227
Epoch: 23, Train_Loss: 0.43763065338134766, Test_Loss: 0.4255937337875366 *
Epoch: 23, Train_Loss: 2.1676764872406006, Test_Loss: 0.40622979402542114 *
Epoch: 23, Train_Loss: 0.7681920528411865, Test_Loss: 0.4131607413291931
Epoch: 23, Train_Loss: 0.41015616059303284, Test_Loss: 0.5005567073822021
Epoch: 23, Train_Loss: 0.40559977293014526, Test_Loss: 1.199030876159668
Epoch: 23, Train_Loss: 0.403560072183609, Test_Loss: 5.1905646324157715
Epoch: 23, Train_Loss: 0.437718003988266, Test_Loss: 0.4078123867511749 *
Epoch: 23, Train_Loss: 0.4180973470211029, Test_Loss: 0.39998745918273926 *
Epoch: 23, Train_Loss: 0.4194042980670929, Test_Loss: 0.41608914732933044
Epoch: 23, Train_Loss: 0.4702426791191101, Test_Loss: 0.41232138872146606 *
Epoch: 23, Train_Loss: 0.4222927987575531, Test_Loss: 0.4400860369205475
Epoch: 23, Train_Loss: 0.42295151948928833, Test_Loss: 0.4042549729347229 *
Epoch: 23, Train_Loss: 0.40900105237960815, Test_Loss: 0.49939844012260437
Epoch: 23, Train_Loss: 0.4089851975440979, Test_Loss: 0.4159999191761017 *
Epoch: 23, Train_Loss: 0.4188612103462219, Test_Loss: 0.40610194206237793 *
Epoch: 23, Train_Loss: 0.41272303462028503, Test_Loss: 0.41743654012680054
Epoch: 23, Train_Loss: 0.4376956820487976, Test_Loss: 0.4318615794181824
Epoch: 23, Train_Loss: 0.40770798921585083, Test_Loss: 0.3975808024406433 *
Epoch: 23, Train_Loss: 0.3920937776565552, Test_Loss: 0.43894681334495544
Epoch: 23, Train_Loss: 0.4033065438270569, Test_Loss: 0.4619203209877014
Epoch: 23, Train_Loss: 0.4109833836555481, Test_Loss: 0.4485630393028259 *
Epoch: 23, Train_Loss: 0.40263456106185913, Test_Loss: 0.4290492534637451 *
Epoch: 23, Train_Loss: 0.3960587978363037, Test_Loss: 0.4221004545688629 *
Epoch: 23, Train_Loss: 0.38914021849632263, Test_Loss: 0.4269119203090668
Epoch: 23, Train_Loss: 0.39002373814582825, Test_Loss: 0.397109717130661 *
Epoch: 23, Train_Loss: 0.3900560140609741, Test_Loss: 0.39569219946861267 *
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Epoch: 23, Train_Loss: 0.39464712142944336, Test_Loss: 0.40016821026802063 *
Epoch: 23, Train_Loss: 0.3909819722175598, Test_Loss: 0.39283832907676697 *
Epoch: 23, Train_Loss: 0.3902356028556824, Test_Loss: 0.3984726369380951
Epoch: 23, Train_Loss: 0.39048051834106445, Test_Loss: 0.39297622442245483 *
Epoch: 23, Train_Loss: 0.3907451033592224, Test_Loss: 0.41271859407424927
Epoch: 23, Train_Loss: 0.39514482021331787, Test_Loss: 0.3988278806209564 *
Epoch: 23, Train_Loss: 0.39381298422813416, Test_Loss: 0.3968594968318939 *
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Epoch: 23, Train_Loss: 0.3893221616744995, Test_Loss: 0.409828245639801 *
Epoch: 23, Train_Loss: 0.39003053307533264, Test_Loss: 0.4514453411102295
Epoch: 23, Train_Loss: 0.3942413032054901, Test_Loss: 0.5273526310920715
Epoch: 23, Train_Loss: 0.40491876006126404, Test_Loss: 0.61509108543396
Epoch: 23, Train_Loss: 0.3918052613735199, Test_Loss: 0.4081602692604065 *
Epoch: 23, Train_Loss: 0.3886493444442749, Test_Loss: 0.4801403880119324
Epoch: 23, Train_Loss: 0.3885861337184906, Test_Loss: 0.519690990447998
Epoch: 23, Train_Loss: 0.4376008212566376, Test_Loss: 0.4620829224586487 *
Epoch: 23, Train_Loss: 0.45373615622520447, Test_Loss: 0.4434065520763397 *
Epoch: 23, Train_Loss: 0.4074438512325287, Test_Loss: 0.39840930700302124 *
Epoch: 23, Train_Loss: 0.3974980115890503, Test_Loss: 0.3975995182991028 *
Epoch: 23, Train_Loss: 0.3901575207710266, Test_Loss: 0.4127786457538605
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Epoch: 23, Train_Loss: 0.3956299424171448, Test_Loss: 0.7448396682739258 *
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Epoch: 23, Train_Loss: 0.4035675823688507, Test_Loss: 1.1238964796066284
Epoch: 23, Train_Loss: 0.4003213047981262, Test_Loss: 0.5802466869354248 *
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Epoch: 23, Train_Loss: 0.4370844066143036, Test_Loss: 0.4824172258377075 *
Epoch: 23, Train_Loss: 0.4213049113750458, Test_Loss: 0.40215831995010376 *
Epoch: 23, Train_Loss: 0.39944902062416077, Test_Loss: 0.4018395245075226 *
Epoch: 23, Train_Loss: 0.4124753773212433, Test_Loss: 0.4925321340560913
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Epoch: 23, Train_Loss: 0.39254486560821533, Test_Loss: 0.9727283120155334
Epoch: 23, Train_Loss: 0.40263816714286804, Test_Loss: 0.9260433912277222 *
Epoch: 23, Train_Loss: 0.3943832218647003, Test_Loss: 2.227177858352661
Epoch: 23, Train_Loss: 0.4191291332244873, Test_Loss: 0.7562795877456665 *
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Epoch: 23, Train_Loss: 0.4191291332244873, Test_Loss: 0.7562795877450005 *
Epoch: 23, Train_Loss: 0.4996940493583679, Test_Loss: 0.8500046730041504
Epoch: 23, Train_Loss: 0.39841100573539734, Test_Loss: 0.42404234409332275 *
Epoch: 23, Train_Loss: 0.4191291928291321, Test_Loss: 0.41001880168914795 *
Epoch: 23, Train_Loss: 0.41478681564331055, Test_Loss: 0.8808296322822571
Epoch: 23, Train_Loss: 0.41049420833587646, Test_Loss: 1.745888352394104
Epoch: 23, Train_Loss: 0.4811856150627136, Test_Loss: 0.5382213592529297 *
Epoch: 23, Train_Loss: 0.5819734334945679, Test_Loss: 0.5171530246734619 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 23
Epoch: 23, Train_Loss: 0.3902566134929657, Test_Loss: 0.3909280300140381 *
Epoch: 23, Train_Loss: 0.4224804639816284, Test_Loss: 0.5138760209083557
Epoch: 23, Train_Loss: 0.386088490486145, Test_Loss: 0.6888913512229919
Epoch: 23, Train_Loss: 0.3898737132549286, Test_Loss: 0.7536724805831909
Epoch: 23, Train_Loss: 0.3882793188095093, Test_Loss: 1.4458204507827759
Epoch: 23, Train_Loss: 0.39418622851371765, Test_Loss: 0.7435157895088196 *
Epoch: 23, Train_Loss: 0.3884160816669464, Test_Loss: 0.3992728888988495 *
Epoch: 23, Train_Loss: 0.4086288511753082, Test_Loss: 0.389750599861145 *
Epoch: 23, Train_Loss: 0.3935316503047943, Test_Loss: 0.39919695258140564
Epoch: 23, Train_Loss: 0.39601022005081177, Test_Loss: 0.41764533519744873
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Epoch: 23, Train_Loss: 0.39031192660331726, Test_Loss: 0.8678117394447327
Epoch: 23, Train_Loss: 0.3864849805831909, Test_Loss: 0.613042414188385 *
Epoch: 23, Train_Loss: 0.38598474860191345, Test_Loss: 0.4515892267227173 *
Epoch: 23, Train_Loss: 0.3977872431278229, Test_Loss: 0.39686959981918335 *
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Epoch: 23, Train_Loss: 0.40649667382240295, Test_Loss: 0.6728485226631165 *
Epoch: 23, Train_Loss: 0.41129952669143677, Test_Loss: 0.4947415888309479 *
Epoch: 23, Train_Loss: 0.3911757469177246, Test_Loss: 0.3924286663532257 *
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Epoch: 23, Train_Loss: 2.2597012519836426, Test_Loss: 0.3888515830039978 *
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Epoch: 23, Train_Loss: 0.539865255355835, Test_Loss: 0.39753827452659607 *
Epoch: 23, Train_Loss: 0.4234107434749603, Test_Loss: 0.39619752764701843 *
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Epoch: 23, Train_Loss: 2.934675693511963, Test_Loss: 0.38648101687431335 *
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Epoch: 23, Train_Loss: 0.9553192257881165, Test_Loss: 0.4217381477355957
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Epoch: 24, Train_Loss: 0.4139286279678345, Test_Loss: 0.41575613617897034 *
Epoch: 24, Train_Loss: 0.4438861310482025, Test_Loss: 0.43908530473709106
Epoch: 24, Train_Loss: 0.4783608317375183, Test_Loss: 0.47942841053009033
Epoch: 24, Train_Loss: 0.4851890206336975, Test_Loss: 0.4034973680973053 *
Epoch: 24, Train_Loss: 0.6585712432861328, Test_Loss: 0.43738698959350586
Epoch: 24, Train_Loss: 0.41971832513809204, Test_Loss: 0.43035459518432617 *
Epoch: 24, Train_Loss: 0.4646971523761749, Test_Loss: 0.426193505525589 *
Epoch: 24, Train_Loss: 0.5285923480987549, Test_Loss: 0.44428417384624481
Epoch: 24, Train_Loss: 0.6025416851043701, Test_Loss: 0.5652658939361572
Epoch: 24, Train_Loss: 0.5878145098686218, Test_Loss: 0.5048917531967163 *
Epoch: 24, Train_Loss: 0.5536881685256958, Test_Loss: 0.4582620859146118 *
Epoch: 24, Train_Loss: 0.46355655789375305, Test_Loss: 0.5039408206939697
Epoch: 24, Train_Loss: 0.46325206756591797, Test_Loss: 0.4746456743286683 *
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Epoch: 24, Train_Loss: 0.46325206756591797, Test_Loss: 0.4746456742286682 *
Epoch: 24, Train_Loss: 0.43218010663986206, Test_Loss: 6.505617141723633
Epoch: 24, Train_Loss: 0.3933827579021454, Test_Loss: 0.5204707384109497 *
Epoch: 24, Train_Loss: 0.3815068006515503, Test_Loss: 0.4759543240070343 *
Epoch: 24, Train_Loss: 0.40762433409690857, Test_Loss: 0.4362357556819916 *
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Epoch: 24, Train_Loss: 0.41174647212028503, Test_Loss: 0.40915030241012573 *
Epoch: 24, Train_Loss: 0.4056601524353073, Test_Loss: 0.4421416223049164
Epoch: 24, Train_Loss: 0.42054110765457153, Test_Loss: 0.43518152832984924 *
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Epoch: 24, Train_Loss: 0.654100775718689, Test_Loss: 0.4047197699546814 *
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Epoch: 24, Train_Loss: 0.8680340647697449, Test_Loss: 0.4004025459289551 *
Epoch: 24, Train_Loss: 0.9148693084716797, Test_Loss: 0.410876601934433
Epoch: 24, Train_Loss: 0.4647068381309509, Test_Loss: 0.39785417914390564 *
Epoch: 24, Train_Loss: 0.41927579045295715, Test_Loss: 0.38950058817863464 *
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Epoch: 24, Train_Loss: 0.3866751790046692, Test_Loss: 0.44398999214172363
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Epoch: 24, Train_Loss: 0.40650689601898193, Test_Loss: 0.3929331302642822 *
Epoch: 24, Train_Loss: 0.41261374950408936, Test_Loss: 0.4321894347667694
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Epoch: 24, Train_Loss: 0.5708701014518738, Test_Loss: 0.42523595690727234 *
Epoch: 24, Train_Loss: 16.372854232788086, Test_Loss: 0.4013712704181671 *
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Epoch: 24, Train_Loss: 1.5632240772247314, Test_Loss: 0.42157498002052307 *
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Epoch: 24, Train_Loss: 7.279222011566162, Test_Loss: 0.4710542857646942 *
Epoch: 24, Train_Loss: 0.4336174726486206, Test_Loss: 0.43034911155700684 *
Epoch: 24, Train_Loss: 0.47570857405662537, Test_Loss: 0.4328823983669281
Epoch: 24, Train_Loss: 5.696248531341553, Test_Loss: 0.42903172969818115 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 24
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 24
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Epoch: 24, Train_Loss: 0.37500742077827454, Test_Loss: 0.449556827545166
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Epoch: 24, Train_Loss: 0.5114960670471191, Test_Loss: 0.3628838062286377 *
Epoch: 24, Train_Loss: 0.3913280665874481, Test_Loss: 0.38666629791259766
Epoch: 24, Train_Loss: 0.3713705615997314, Test_Loss: 0.3833773732185364 *
Epoch: 24, Train_Loss: 0.36617812514305115, Test_Loss: 0.37985002994537354 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 24
Epoch: 24, Train_Loss: 0.47029268741607666, Test_Loss: 0.3714149594306946 *
Epoch: 24, Train_Loss: 0.38959404826164246, Test_Loss: 0.3940410315990448
Epoch: 24, Train_Loss: 0.3774948418140414, Test_Loss: 0.4046892523765564
Epoch: 24, Train_Loss: 0.9289110898971558, Test_Loss: 0.4467182755470276
Epoch: 24, Train_Loss: 1.0396316051483154, Test_Loss: 0.4013822376728058 *
Epoch: 24, Train_Loss: 0.904172420501709, Test_Loss: 0.406087726354599
Epoch: 24, Train_Loss: 0.4966716468334198, Test_Loss: 0.3893112242221832 *
Epoch: 24, Train_Loss: 1.036935567855835, Test_Loss: 0.3694879114627838 *
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Epoch: 24, Train_Loss: 0.8483679890632629, Test_Loss: 0.37279537320137024 *
Epoch: 24, Train_Loss: 0.49445539712905884, Test_Loss: 0.3709727227687857 *
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Epoch: 24, Train_Loss: 0.7400987148284912, Test_Loss: 0.374320387840271 *
Epoch: 24, Train_Loss: 0.4320421814918518, Test_Loss: 0.399311900138855
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Epoch: 24, Train_Loss: 0.41057565808296204, Test_Loss: 0.3878759443759918 *
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Epoch: 24, Train_Loss: 0.4571119248867035, Test_Loss: 0.5619470477104187
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Epoch: 24, Train_Loss: 0.578964352607727, Test_Loss: 0.46814388036727905 *
Epoch: 24, Train_Loss: 0.41183314854141235, Test_Loss: 0.4248393177986145 *
Epoch: 24, Train_Loss: 0.46581155412841797, Test_Loss: 0.49889618158340454
Epoch: 24, Train_Loss: 0.4476095736026764, Test_Loss: 0.5162314772605896
Epoch: 24, Train_Loss: 0.5928137302398682, Test_Loss: 0.4105851948261261 *
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Epoch: 24, Train_Loss: 0.4907141923904419, Test_Loss: 0.3978532552719116 *
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Epoch: 24, Train_Loss: 0.3593328893184662, Test_Loss: 0.6884600520133972
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 24
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Epoch: 25, Train_Loss: 0.359323114156723, Test_Loss: 1.223175287246704 *
Epoch: 25, Train_Loss: 0.3622431755065918, Test_Loss: 0.3733079135417938 *
Epoch: 25, Train_Loss: 0.3658509850502014, Test_Loss: 0.37152835726737976 *
Epoch: 25, Train_Loss: 0.3578275442123413, Test_Loss: 0.3855310380458832
Epoch: 25, Train_Loss: 0.348002552986145, Test_Loss: 0.3572814464569092 *
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Epoch: 25, Train_Loss: 0.34746333956718445, Test_Loss: 0.476601958274841
Epoch: 25, Train_Loss: 0.35130247473716736, Test_Loss: 0.43891724944114685 *
Epoch: 25, Train_Loss: 0.34628838300704956, Test_Loss: 0.40489131212234497 *
Epoch: 25, Train_Loss: 0.3482705910736999, Test_Loss: 0.43975287675857544
Epoch: 25, Train_Loss: 0.35047057271003723, Test_Loss: 0.45493242144584656
Epoch: 25, Train_Loss: 0.3476659953594208, Test_Loss: 0.3999347686767578 *
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Epoch: 25, Train_Loss: 0.3492688536643982, Test_Loss: 0.3854999542236328 *
Epoch: 25, Train_Loss: 0.35120701789855957, Test_Loss: 0.3763410151004791 *
Epoch: 25, Train_Loss: 0.3642396926879883, Test_Loss: 0.39691537618637085
Epoch: 25, Train_Loss: 0.3509158790111542, Test_Loss: 0.4511412978172302
Epoch: 25, Train_Loss: 0.3577418327331543, Test_Loss: 0.4384757876396179 *
Epoch: 25, Train_Loss: 0.3466518521308899, Test_Loss: 0.3817374110221863 *
```

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Epoch: 25, Train_Loss: 0.3471485376358032, Test_Loss: 0.3998175263404846
Epoch: 25, Train_Loss: 0.3575497567653656, Test_Loss: 0.3710399866104126 *
Epoch: 25, Train_Loss: 0.35796159505844116, Test_Loss: 0.39595404267311096
Epoch: 25, Train_Loss: 0.34940603375434875, Test_Loss: 0.3908611238002777 *
Epoch: 25, Train_Loss: 0.347957044839859, Test_Loss: 0.3634772300720215 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 25
Epoch: 25, Train_Loss: 0.350603312253952, Test_Loss: 0.3783670663833618
Epoch: 25, Train_Loss: 0.3963918387889862, Test_Loss: 0.3692256808280945 *
Epoch: 25, Train_Loss: 0.3696362376213074, Test_Loss: 0.3639441430568695 *
Epoch: 25, Train_Loss: 0.3669069707393646, Test_Loss: 0.3585868179798126 *
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Epoch: 25, Train_Loss: 0.35987287759780884, Test_Loss: 0.7524881362915039
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Epoch: 25, Train_Loss: 0.3584205210208893, Test_Loss: 0.42210230231285095 *
Epoch: 25, Train_Loss: 0.3599344789981842, Test_Loss: 0.34527966380119324 *
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Epoch: 25, Train_Loss: 0.36856991052627563, Test_Loss: 0.40569624304771423 *
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Epoch: 25, Train_Loss: 0.3861842155456543, Test_Loss: 0.35916584730148315 *
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Epoch: 25, Train_Loss: 0.36888548731803894, Test_Loss: 0.41398829221725464 *
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Epoch: 25, Train_Loss: 0.5099501013755798, Test_Loss: 0.7042080760002136
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Epoch: 25, Train_Loss: 0.47882717847824097, Test_Loss: 0.36771392822265625 *
Epoch: 25, Train_Loss: 0.443864107131958, Test_Loss: 0.35786619782447815 *
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Epoch: 25, Train_Loss: 0.3437005579471588, Test_Loss: 0.3747810423374176
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 25
Epoch: 25, Train_Loss: 0.3496164083480835, Test_Loss: 0.36932945251464844 *
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Epoch: 25, Train_Loss: 0.5629755258560181, Test_Loss: 7.278083324432373
Epoch: 25, Train_Loss: 0.360956609249115, Test_Loss: 1.2896629571914673 *
Epoch: 25, Train_Loss: 0.37805435061454773, Test_Loss: 0.5583209991455078 *
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Epoch: 25, Train_Loss: 0.4721718728542328, Test_Loss: 0.609439492225647 *
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Epoch: 25, Train_Loss: 0.3733125925064087, Test_Loss: 0.5262769460678101 *
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Epoch: 25, Train_Loss: 0.33745694160461426, Test_Loss: 0.589400589466095 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 25
Epoch: 25, Train_Loss: 0.3927704691886902, Test_Loss: 1.8308255672454834
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Epoch: 25, Train_Loss: 0.4129515290260315, Test_Loss: 0.9167768955230713 *
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Epoch: 25, Train_Loss: 0.336633455634117126, Test_Loss: 0.3609205186367035 *
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Epoch: 25, Train_Loss: 0.3493090569972992, Test_Loss: 0.8156920671463013 *
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Epoch: 25, Train_Loss: 0.3979836702346802, Test_Loss: 0.5424892902374268 *
Epoch: 25, Train_Loss: 0.4416559636592865, Test_Loss: 0.4116557240486145 *
```

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Epoch: 25, Train_Loss: 0.34681546688079834, Test_Loss: 0.8402388095855713 *
Epoch: 25, Train_Loss: 0.33275023102760315, Test_Loss: 0.43798884749412537 *
Epoch: 25, Train_Loss: 0.3352796137332916, Test_Loss: 0.369101881980896 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 25
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Epoch: 25, Train_Loss: 0.3322705924510956, Test_Loss: 0.3415508568286896 *
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Epoch: 26, Train_Loss: 0.533474326133728, Test_Loss: 0.36996546387672424
Epoch: 26, Train_Loss: 0.6264382600784302, Test_Loss: 0.33586037158966064 *
Epoch: 26, Train_Loss: 0.33555519580841064, Test_Loss: 0.35535767674446106
Epoch: 26, Train_Loss: 0.38298270106315613, Test_Loss: 0.6379244327545166
Epoch: 26, Train_Loss: 0.4106549322605133, Test_Loss: 0.3803814947605133 *
Epoch: 26, Train_Loss: 2.86733341217041, Test_Loss: 0.35739535093307495 *
Epoch: 26, Train_Loss: 13.985088348388672, Test_Loss: 0.3637295961380005
Epoch: 26, Train_Loss: 0.779758095741272, Test_Loss: 0.4597119390964508
Epoch: 26, Train_Loss: 1.7609105110168457, Test_Loss: 0.43830791115760803 *
Epoch: 26, Train_Loss: 0.8209354877471924, Test_Loss: 0.3599291443824768 *
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Epoch: 26, Train_Loss: 0.3733825981616974, Test_Loss: 0.40656325221061707
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 26
Epoch: 26, Train_Loss: 0.5685539245605469, Test_Loss: 0.47731471061706543
Epoch: 26, Train_Loss: 7.223490238189697, Test_Loss: 0.38907167315483093 *
Epoch: 26, Train_Loss: 2.7193479537963867, Test_Loss: 0.36875855922698975 *
Epoch: 26, Train_Loss: 0.3606411814689636, Test_Loss: 0.35981324315071106 *
Epoch: 26, Train_Loss: 2.0416626930236816, Test_Loss: 0.4061965346336365
Epoch: 26, Train_Loss: 4.233255386352539, Test_Loss: 0.5098986625671387
Epoch: 26, Train_Loss: 0.5134944915771484, Test_Loss: 0.5843232870101929
Epoch: 26, Train_Loss: 0.331849346473094, Test_Loss: 0.7267943620681763
Epoch: 26, Train_Loss: 0.3239871561527252, Test_Loss: 0.8749738931655884
Epoch: 26, Train_Loss: 0.33271852135658264, Test_Loss: 0.5864267945289612 *
Epoch: 26, Train_Loss: 0.3676624000072479, Test_Loss: 0.646643877029419
Epoch: 26, Train_Loss: 0.3403230905532837, Test_Loss: 0.48446816205978394 *
Epoch: 26, Train_Loss: 0.32096052169799805, Test_Loss: 0.4449714124202728 *
Epoch: 26, Train_Loss: 0.32030051946640015, Test_Loss: 0.37891554832458496 *
Epoch: 26, Train_Loss: 0.3298436403274536, Test_Loss: 0.35877639055252075 *
Epoch: 26, Train_Loss: 0.3821524679660797, Test_Loss: 0.39099887013435364
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Epoch: 26, Train_Loss: 0.3464258015155792, Test_Loss: 0.7900285124778748
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Epoch: 26, Train_Loss: 0.46326735615730286, Test_Loss: 1.222272515296936
Epoch: 26, Train_Loss: 0.368815541267395, Test_Loss: 1.0492757558822632 *
Epoch: 26, Train_Loss: 0.3869473338127136, Test_Loss: 0.6754359006881714 *
Epoch: 26, Train_Loss: 0.41600579023361206, Test_Loss: 0.3963392376899719 *
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Epoch: 26, Train_Loss: 0.3254436254501343, Test_Loss: 0.6647669076919556
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Epoch: 26, Train_Loss: 0.32036885619163513, Test_Loss: 0.3694755434989929 *
Epoch: 26, Train_Loss: 0.32468685507774353, Test_Loss: 0.36842846870422363 *
Epoch: 26, Train_Loss: 0.32438603043556213, Test_Loss: 0.34734657406806946 *
Epoch: 26, Train_Loss: 0.32100909948349, Test_Loss: 0.5965619087219238
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Epoch: 26, Train_Loss: 0.357714980840683, Test_Loss: 0.3309940695762634 *
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Epoch: 26, Train_Loss: 0.3351696729660034, Test_Loss: 0.36499908566474915 *
Epoch: 26, Train_Loss: 0.4338652491569519, Test_Loss: 0.36953258514404297
Epoch: 26, Train_Loss: 0.3492538332939148, Test_Loss: 0.3640677034854889 *
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Epoch: 26, Train_Loss: 0.3783999979496002, Test_Loss: 0.370709627866745 *
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Epoch: 26, Train_Loss: 0.522354006767273, Test_Loss: 0.3344901204109192
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Epoch: 26, Train_Loss: 0.3189890682697296, Test_Loss: 0.4200962781906128 *
Epoch: 26, Train_Loss: 0.33247673511505127, Test_Loss: 0.4933595359325409

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Epoch: 26, Train_Loss: 0.352170793110012?, Test_Loss: 0.199999999999969
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Epoch: 26, Train_Loss: 0.35628843995910645, Test_Loss: 0.429642528295516 97
Epoch: 26, Train_Loss: 0.3676181435585022, Test_Loss: 0.3723122477531433 *
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Epoch: 26, Train_Loss: 0.39359599351882935, Test_Loss: 0.3432625234127044 7 *
Epoch: 26, Train_Loss: 0.3399779498577118, Test_Loss: 0.3331858515739441 *
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Epoch: 26, Train_Loss: 0.33912569284439087, Test_Loss: 0.36829107999801636 *
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Epoch: 26, Train_Loss: 0.32059746980667114, Test_Loss: 0.328888863325119 *
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Epoch: 26, Train_Loss: 3.3184680938720703, Test_Loss: 0.343893438577652 *
Epoch: 26, Train_Loss: 0.7538508772850037, Test_Loss: 0.31841841340065 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 26
Epoch: 26, Train_Loss: 0.32775256037712097, Test_Loss: 0.33627849817276
Epoch: 26, Train_Loss: 0.3209981620311737, Test_Loss: 0.3344305753707886 *
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Epoch: 26, Train_Loss: 0.32088908553123474, Test_Loss: 0.3683105409145355
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Epoch: 26, Train_Loss: 0.32371431589126587, Test_Loss: 0.334915429353714
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Epoch: 26, Train_Loss: 0.3391489950244446, Test_Loss: 0.3330490703094757
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Epoch: 26, Train_Loss: 0.316323459148407, Test_Loss: 1.3630106449127197
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Epoch: 26, Train_Loss: 0.3207213878631592, Test_Loss: 0.3342094123363495 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 26
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Epoch: 26, Train_Loss: 0.32206395268440247, Test_Loss: 0.3601464033126831 *
Epoch: 26, Train_Loss: 0.33337917923927307, Test_Loss: 0.3276904225349426 *
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Epoch: 26, Train_Loss: 0.3124551475048065, Test_Loss: 0.37145912647247314 *
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Epoch: 26, Train_Loss: 0.3173071444034574, Test_Loss: 0.34540852904319763 *
Epoch: 26, Train_Loss: 0.33339089155197144, Test_Loss: 0.3300032913684845 *
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Epoch: 26, Train_Loss: 0.3116404116153717, Test_Loss: 0.3209989666938782 *

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Epoch: 26, Train_Loss: 0.3116404116133717, Test_Loss: 0.3209989060936782 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 26
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Epoch: 27, Train_Loss: 0.3776862621307373, Test_Loss: 0.3446078598499298
Epoch: 27, Train_Loss: 0.46196985244750977, Test_Loss: 0.46264296770095825
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 27
Epoch: 27, Train_Loss: 0.4195902347564697, Test_Loss: 0.6397212743759155
```

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Epoch: 27, Train_Loss: 0.31315481662750244, Test_Loss: 0.7321804165840149
Epoch: 27, Train_Loss: 1.4173659086227417, Test_Loss: 0.36503949761390686 *
Epoch: 27, Train_Loss: 1.027349829673767, Test_Loss: 0.37810829281806946
Epoch: 27, Train_Loss: 0.3369736969470978, Test_Loss: 0.3232712149620056 *
Epoch: 27, Train_Loss: 0.33479371666908264, Test_Loss: 0.3300967514514923
Epoch: 27, Train_Loss: 0.31988468766212463, Test_Loss: 0.35336601734161377
Epoch: 27, Train_Loss: 0.33881333470344543, Test_Loss: 0.33020222187042236 *
Epoch: 27, Train_Loss: 0.3368067443370819, Test_Loss: 0.37964439392089844
Epoch: 27, Train_Loss: 0.32002100348472595, Test_Loss: 0.44380098581314087
Epoch: 27, Train_Loss: 0.35907503962516785, Test_Loss: 0.36899328231811523 *
Epoch: 27, Train_Loss: 0.3328527808189392, Test_Loss: 0.4529491662979126
Epoch: 27, Train_Loss: 0.33272048830986023, Test_Loss: 0.5828245282173157
Epoch: 27, Train_Loss: 0.40849292278289795, Test_Loss: 0.5507584810256958 *
Epoch: 27, Train_Loss: 0.3408772647380829, Test_Loss: 0.3610241413116455 *
Epoch: 27, Train_Loss: 0.3106038570404053, Test_Loss: 0.3363885283470154 *
Epoch: 27, Train_Loss: 0.31971949338912964, Test_Loss: 0.33727699518203735
Epoch: 27, Train_Loss: 0.3321988582611084, Test_Loss: 0.3356778025627136 *
Epoch: 27, Train_Loss: 0.31728410720825195, Test_Loss: 0.3419007956981659
Epoch: 27, Train_Loss: 0.3102402687072754, Test_Loss: 1.1424291133880615
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Epoch: 27, Train_Loss: 0.3157578408718109, Test_Loss: 0.3527832329273224 *
Epoch: 27, Train_Loss: 0.31459304690361023, Test_Loss: 0.33316314220428467 *
Epoch: 27, Train_Loss: 0.3190762996673584, Test_Loss: 0.334372878074646
Epoch: 27, Train_Loss: 0.3080728352069855, Test_Loss: 0.3122594356536865 *
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Epoch: 27, Train_Loss: 0.30188700556755066, Test_Loss: 0.3405996561050415
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Epoch: 27, Train_Loss: 0.31653982400894165, Test_Loss: 0.32757309079170227 *
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Epoch: 27, Train_Loss: 0.30545082688331604, Test_Loss: 0.4145672619342804
Epoch: 27, Train_Loss: 0.30619844794273376, Test_Loss: 0.33180615305900574 *
Epoch: 27, Train_Loss: 0.30624622106552124, Test_Loss: 0.32083234190940857 *
Epoch: 27, Train_Loss: 0.31671571731567383, Test_Loss: 0.3677595257759094
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Epoch: 27, Train_Loss: 0.31399106979370117, Test_Loss: 0.4148494601249695 *
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Epoch: 27, Train_Loss: 0.3070688545703888, Test_Loss: 0.30776989459991455 *
Epoch: 27, Train_Loss: 0.3410305976867676, Test_Loss: 0.33155348896980286
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Epoch: 27, Train_Loss: 0.30185961723327637, Test_Loss: 0.328071653842926
Epoch: 27, Train_Loss: 0.30431652069091797, Test_Loss: 0.32076334953308105 *
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Epoch: 27, Train_Loss: 0.31237142583541387, Test_Loss: 0.3095943033695221 *
Epoch: 27, Train_Loss: 0.3071698546409607, Test_Loss: 0.3120500147342682
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Epoch: 27, Train_Loss: 0.3111017644405365, Test_Loss: 0.3119436204433441 *
Epoch: 27, Train_Loss: 0.3106197118759155, Test_Loss: 0.3331298828125
Epoch: 27, Train_Loss: 0.30888131260871887, Test_Loss: 0.6270191669464111
Epoch: 27, Train_Loss: 0.31191956996917725, Test_Loss: 0.33568844199180603 *
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Epoch: 27, Train_Loss: 0.30050015449523926, Test_Loss: 0.42705851793289185
Epoch: 27, Train_Loss: 0.31752651929855347, Test_Loss: 0.4327181279659271
Epoch: 27, Train_Loss: 0.31177473068237305, Test_Loss: 0.3834497928619385 *
Epoch: 27, Train_Loss: 0.32671919465065, Test_Loss: 0.3383176326751709 *
Epoch: 27, Train_Loss: 0.3056049346923828, Test_Loss: 0.41441047191619873
Epoch: 27, Train_Loss: 0.313665509223938, Test_Loss: 0.48717862367630005
Epoch: 27, Train_Loss: 0.31844472885131836, Test_Loss: 0.3239581882953644 *
Epoch: 27, Train_Loss: 0.32721173763275146, Test_Loss: 0.3364439904689789
Epoch: 27, Train_Loss: 0.30717387795448303, Test_Loss: 0.3119753897190094 *
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Epoch: 27, Train_Loss: 0.2995155453681946, Test_Loss: 0.4585930109024048
Epoch: 27, Train_Loss: 0.3160552382469177, Test_Loss: 0.7714539766311646
Epoch: 27, Train_Loss: 0.3090725839138031, Test_Loss: 0.510105550289154 *
Epoch: 27, Train_Loss: 0.31690776348114014, Test_Loss: 0.9167392253875732
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 27
Epoch: 27, Train_Loss: 1.192021131515503, Test_Loss: 0.6923387050628662 *
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Epoch: 27, Train_Loss: 0.9499632120132446, Test_Loss: 0.48989585041999817 *
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Epoch: 27, Train_Loss: 0.3041219711303711, Test_Loss: 0.35156479477882385 *
Epoch: 27, Train_Loss: 0.3869940936565399, Test_Loss: 0.31406348943710327 *
Epoch: 27, Train_Loss: 0.37807533144950867, Test_Loss: 0.4209263324737549
Epoch: 27, Train_Loss: 0.31685829162597656, Test_Loss: 0.7492629289627075
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Epoch: 27, Train_Loss: 0.5658252835273743, Test_Loss: 0.6158902645111084 *
Epoch: 27, Train_Loss: 0.9944741725921631, Test_Loss: 0.33960384130477905 *
Epoch: 27, Train_Loss: 0.9779192209243774, Test_Loss: 0.33271607756614685 *
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Epoch: 27, Train_Loss: 0.7246003746986389, Test_Loss: 0.6030463576316833 *
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Epoch: 27, Train_Loss: 0.3131951093673706, Test_Loss: 0.6264063119888306 *
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Epoch: 27, Train_Loss: 0.3425021469593048, Test_Loss: 0.6147887706756592 *
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Epoch: 27, Train_Loss: 0.3022182881832123, Test_Loss: 0.36873140931129456
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Epoch: 27, Train_Loss: 0.3410215973854065, Test_Loss: 0.44743800163269043 *
Epoch: 27, Train_Loss: 0.37550467252731323, Test_Loss: 0.3578343093395233 *
Epoch: 27, Train_Loss: 0.46237415075302124, Test_Loss: 0.3678501546382904
Epoch: 27, Train_Loss: 0.5024611949920654, Test_Loss: 0.36305397748947144 *
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Epoch: 27, Train_Loss: 0.31774988770484924, Test_Loss: 0.3705331087112427
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Epoch: 27, Train_Loss: 0.34904322028160095, Test_Loss: 0.35342293977737427 *
Epoch: 27, Train_Loss: 0.3334522843360901, Test_Loss: 0.32884085178375244 *
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Epoch: 27, Train_Loss: 0.37900131940841675, Test_Loss: 0.31931057572364807 *
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Epoch: 27, Train_Loss: 0.5671499967575073, Test_Loss: 0.31471285223960876 *
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Epoch: 27, Train_Loss: 0.3179508149623871, Test_Loss: 0.32087594270706177 *
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Epoch: 27, Train_Loss: 0.33432161808013916, Test_Loss: 0.3410845398902893 *
Epoch: 27, Train_Loss: 0.32697010040283203, Test_Loss: 0.3354339599609375 *
Epoch: 27, Train_Loss: 0.36926424503326416, Test_Loss: 0.3337375521659851 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 27
Epoch: 27, Train_Loss: 0.36410677433013916, Test_Loss: 0.3640681505203247
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Epoch: 27, Train_Loss: 0.3232267498970032, Test_Loss: 0.43793320655822754 *
Epoch: 27, Train_Loss: 0.39624127745628357, Test_Loss: 0.33264732360839844 *
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Epoch: 27, Train_Loss: 0.29654428362846375, Test_Loss: 0.46404778957366943
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Epoch: 27, Train_Loss: 0.29482463002204895, Test_Loss: 0.4235234260559082 *
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Epoch: 27, Train_Loss: 0.32179903984069824, Test_Loss: 0.34128281474113464 *
Epoch: 27, Train_Loss: 0.34536829590797424, Test_Loss: 0.3340854346752167 *
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Epoch: 27, Train_Loss: 0.41673147678375244, Test_Loss: 0.34321463108062744 *
Epoch: 27, Train_Loss: 7.218565940856934, Test_Loss: 0.33739036321640015 *
Epoch: 27, Train_Loss: 0.3932541608810425, Test_Loss: 0.716322660446167
Epoch: 27, Train_Loss: 0.34798434376716614, Test_Loss: 0.3874092996120453 *
Epoch: 27, Train_Loss: 0.39712801575660706, Test_Loss: 0.4113588333129883
Epoch: 27, Train_Loss: 0.4502734541893054, Test_Loss: 0.3852561116218567 *
Epoch: 27, Train_Loss: 0.4030629098415375, Test_Loss: 0.5296027660369873
Epoch: 27, Train_Loss: 0.3775438070297241, Test_Loss: 0.4098912179470062 *
Epoch: 27, Train_Loss: 0.361110657453537, Test_Loss: 0.30675527453422546 *
Epoch: 27, Train_Loss: 0.5030637979507446, Test_Loss: 0.38726502656936646
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Epoch: 27, Train_Loss: 0.3559384346008301, Test_Loss: 0.39216408133506775 *
Epoch: 27, Train_Loss: 0.2972630560398102, Test_Loss: 0.35196220874786377 *
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Epoch: 27, Train_Loss: 0.32071423530578613, Test_Loss: 0.3023185133934021 *
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Epoch: 27, Train_Loss: 0.31551167368888855, Test_Loss: 0.6737725734710693
Epoch: 27, Train_Loss: 0.34852492809295654, Test_Loss: 0.6003632545471191 *
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Epoch: 27, Train_Loss: 0.31630682945251465, Test_Loss: 0.6692132949829102 *
Epoch: 27, Train_Loss: 0.4209781289100647, Test_Loss: 0.47724997997283936 *
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Epoch: 27, Train_Loss: 0.30623072385787964, Test_Loss: 0.35923251509666443 *
Epoch: 27, Train_Loss: 0.29957541823387146, Test_Loss: 0.31930384039878845 *
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Epoch: 27, Train_Loss: 3.349194049835205, Test_Loss: 0.3317570090293884 *
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Epoch: 27, Train_Loss: 0.3306311070919037, Test_Loss: 0.31333523988723755 *
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Epoch: 27, Train_Loss: 0.34621861577033997, Test_Loss: 0.6568240523338318
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 27
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Epoch: 27, Train_Loss: 0.3013158440589905, Test_Loss: 0.45779281854629517 *
Epoch: 27, Train_Loss: 0.29646340012550354, Test_Loss: 0.3855482041835785 *
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Epoch: 28, Train_Loss: 0.2996184527873993, Test_Loss: 2.2746939659118652
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Epoch: 28, Train_Loss: 0.30883073806762695, Test_Loss: 0.8521043062210083 *
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Epoch: 28, Train_Loss: 0.382083922624588, Test_Loss: 0.33849239349365234 *
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Epoch: 28, Train_Loss: 0.384117066860199, Test_Loss: 0.3402741849422455 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 28
Epoch: 28, Train_Loss: 0.3699641823768616, Test_Loss: 0.3532821536064148
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Epoch: 28, Train_Loss: 0.3111797571182251, Test_Loss: 0.6903051137924194 *
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Epoch: 28, Train_Loss: 0.3152758777141571, Test_Loss: 0.2950061857700348 *
Epoch: 28, Train_Loss: 0.9402300119400024, Test_Loss: 0.290046364068985 *
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Epoch: 28, Train_Loss: 0.48511719703674316, Test_Loss: 0.495965838432312
Epoch: 28, Train_Loss: 0.5260401964187622, Test_Loss: 0.38513514399528503 *
Epoch: 28, Train_Loss: 0.4970148503780365, Test_Loss: 0.3041037917137146 *
Epoch: 28, Train_Loss: 0.3660464286804199, Test_Loss: 0.3153909146785736
Epoch: 28, Train_Loss: 0.3384847939014435, Test_Loss: 0.31324875354766846 *
Epoch: 28, Train_Loss: 0.48970723152160645, Test_Loss: 0.4900878667831421
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Epoch: 28, Train_Loss: 0.35557639598846436, Test_Loss: 0.3038361966609955 *
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Epoch: 28, Train_Loss: 0.3002982437610626, Test_Loss: 0.3459797203540802
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 28
Epoch: 28, Train_Loss: 0.3054284155368805, Test_Loss: 0.3060263395309448 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 28
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Epoch: 28, Train_Loss: 0.29522213339805603, Test_Loss: 5.187490463256836
Epoch: 28, Train_Loss: 0.3608805239200592, Test_Loss: 0.3661363422870636 *
Epoch: 28, Train_Loss: 0.30255576968193054, Test_Loss: 0.3213399350643158 *
Epoch: 28, Train_Loss: 0.3145115375518799, Test_Loss: 0.30651435256004333 *
Epoch: 28, Train_Loss: 0.312020480632782, Test_Loss: 0.2991948127746582 *
Epoch: 28, Train_Loss: 0.2886379063129425, Test_Loss: 0.28747719526290894 *
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Epoch: 28, Train_Loss: 0.311860591173172, Test_Loss: 0.3234773278236389 *
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Epoch: 28, Train_Loss: 0.2870175540447235, Test_Loss: 0.3008701205253601 *
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Epoch: 28, Train_Loss: 0.2952617108821869, Test_Loss: 0.3431951105594635 *
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Epoch: 28, Train_Loss: 0.43097785115242004, Test_Loss: 0.28964412212371826 *
Epoch: 28, Train_Loss: 0.8253330588340759, Test_Loss: 0.31980612874031067
Epoch: 28, Train_Loss: 1.411870002746582, Test_Loss: 0.39053255319595337
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 28
Epoch: 28, Train_Loss: 0.5740334987640381, Test_Loss: 0.35297954082489014 *
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Epoch: 28, Train_Loss: 0.3391854763031006, Test_Loss: 0.4845302104949951
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Epoch: 28, Train_Loss: 0.4034782648086548, Test_Loss: 0.3070808947086334 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 29
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Epoch: 29, Train_Loss: 0.28120529651641846, Test_Loss: 0.2774144411087036 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 29
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Epoch: 29, Train_Loss: 0.27086693048477173, Test_Loss: 0.3089849650859833 *
Epoch: 29, Train_Loss: 0.281120240688324, Test_Loss: 0.318662166595459
Epoch: 29, Train_Loss: 0.29984354972839355, Test_Loss: 0.2870849668979645 *
Epoch: 29, Train_Loss: 0.3337591588497162, Test_Loss: 0.2794218957424164 *
Epoch: 29, Train_Loss: 0.30150336027145386, Test_Loss: 0.288227915763855
Epoch: 29, Train_Loss: 0.3473482131958008, Test_Loss: 0.3038846254348755
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Epoch: 29, Train_Loss: 0.28644147515296936, Test_Loss: 0.7001162171363831
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Epoch: 29, Train_Loss: 0.3197595775127411, Test_Loss: 0.3428856134414673
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Epoch: 29, Train_Loss: 0.31790030002593994, Test_Loss: 0.31689658761024475 *
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Epoch: 29, Train_Loss: 0.38587599992752075, Test_Loss: 0.33708083629608154 *
Epoch: 29, Train_Loss: 0.33171236515045166, Test_Loss: 0.6216487884521484
Epoch: 29, Train_Loss: 0.2925584316253662, Test_Loss: 0.4228247404098511 *
Epoch: 29, Train_Loss: 0.2884279489517212, Test_Loss: 0.322068989276886 *
Epoch: 29, Train_Loss: 0.28865909576416016, Test_Loss: 0.2949545979499817 *
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Epoch: 29, Train_Loss: 0.31790876388549805, Test_Loss: 0.4225962460041046 *
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Epoch: 29, Train_Loss: 0.292418897151947, Test_Loss: 0.8866614103317261
Epoch: 29, Train_Loss: 0.2650265395641327, Test_Loss: 0.3647928237915039 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 29
Epoch: 29, Train_Loss: 0.2662573456764221, Test_Loss: 0.30398741364479065 *
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Epoch: 29, Train_Loss: 0.27610698342323303, Test_Loss: 0.6806455850601196 *
Epoch: 29, Train_Loss: 0.27718251943588257, Test_Loss: 0.3981373608112335 *
Epoch: 29, Train_Loss: 0.2643626630306244, Test_Loss: 0.27533429861068726 *
Epoch: 29, Train_Loss: 0.2653008699417114, Test_Loss: 0.2759380042552948
Epoch: 29, Train_Loss: 0.3416062891483307, Test_Loss: 0.2732072770595505 *
Epoch: 29, Train_Loss: 0.3078305721282959, Test_Loss: 0.33394038677215576
Epoch: 29, Train_Loss: 0.3113754093647003, Test_Loss: 0.569807767868042
Epoch: 29, Train_Loss: 0.3336213529109955, Test_Loss: 0.5462642908096313 *
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Epoch: 29, Train_Loss: 0.3302956819534302, Test_Loss: 0.3393948078155176 *
Epoch: 29, Train_Loss: 0.2966195344924927, Test_Loss: 0.2885078489780426 *
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Epoch: 29, Train_Loss: 0.2640348970890045, Test_Loss: 0.3662751019001007 *
Epoch: 29, Train_Loss: 0.26673361978790283, Test_Loss: 0.3007974922657013 *
Epoch: 29, Train_Loss: 0.2737194001674652, Test_Loss: 0.27052390575408936 *
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Epoch: 29, Train_Loss: 0.2652386426925659, Test_Loss: 0.2910947799682617 *
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Epoch: 30, Train_Loss: 0.2865696847438812, Test_Loss: 0.43267011642456055
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Epoch: 30, Train_Loss: 0.269844651222229, Test_Loss: 0.2843852937221527 *
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Epoch: 30, Train_Loss: 0.265298217535U189, Test_Loss: 0.3708259463310241/
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Epoch: 30, Train_Loss: 0.27017641067504883, Test_Loss: 0.6047496795654297 *
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Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 30
Epoch: 30, Train_Loss: 0.27771279215812683, Test_Loss: 0.6494717001914978
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Epoch: 30, Train_Loss: 0.2739610970020294, Test_Loss: 0.5867734551429749
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Epoch: 30, Train_Loss: 0.31360477209091187, Test_Loss: 0.2832023501396179 *
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Epoch: 30, Train_Loss: 0.26885464787483215, Test_Loss: 0.2904873192310333 *
Epoch: 30, Train_Loss: 0.3301401734352112, Test_Loss: 0.44156643748283386
Epoch: 30, Train_Loss: 0.28482165932655334, Test_Loss: 0.30686870217323303 *
Epoch: 30, Train_Loss: 0.3219614028930664, Test_Loss: 0.358728289604187
Epoch: 30, Train_Loss: 0.36113759875297546, Test_Loss: 0.29246786236763 *
Epoch: 30, Train_Loss: 0.3962498903274536, Test_Loss: 0.30270370841026306
Epoch: 30, Train_Loss: 0.3481118679046631, Test_Loss: 0.3551817238330841
Epoch: 30, Train_Loss: 0.2892897129058838, Test_Loss: 0.3159736692905426 *
Epoch: 30, Train_Loss: 0.43645715713500977, Test_Loss: 0.2910689413547516 *
Epoch: 30, Train_Loss: 0.32810088992118835, Test_Loss: 0.3126178979873657
Epoch: 30, Train_Loss: 0.3607238829135895, Test_Loss: 0.47375592589378357
Epoch: 30, Train_Loss: 0.4420453906059265, Test_Loss: 0.3899692893028259 *
Epoch: 30, Train_Loss: 0.29699692130088806, Test_Loss: 0.27437347173690796 *
Epoch: 30, Train_Loss: 0.3248269855976105, Test_Loss: 0.44678670167922974
Epoch: 30, Train_Loss: 0.3267133831977844, Test_Loss: 2.526928663253784
Epoch: 30, Train_Loss: 0.28699690103530884, Test_Loss: 4.1843180656433105
Epoch: 30, Train_Loss: 0.26940909028053284, Test_Loss: 0.3075745701789856 *
Epoch: 30, Train_Loss: 0.2637569010257721, Test_Loss: 0.27714741230010986 *
Epoch: 30, Train_Loss: 0.26324042677879333, Test_Loss: 0.34564727544784546
Epoch: 30, Train_Loss: 0.2644493877887726, Test_Loss: 0.39896243810653687
Epoch: 30, Train_Loss: 0.26747947931289673, Test_Loss: 0.29361841082572937 *
Epoch: 30, Train_Loss: 0.29061758518218994, Test_Loss: 0.31250953674316406
Epoch: 30, Train_Loss: 0.280167818069458, Test_Loss: 0.5617564916610718
Epoch: 30, Train_Loss: 0.30520278215408325, Test_Loss: 0.26906001567840576 *
Epoch: 30, Train_Loss: 0.48727884888648987, Test_Loss: 0.31438302993774414
Epoch: 30, Train_Loss: 0.5625806450843811, Test_Loss: 0.4043251872062683
Epoch: 30, Train_Loss: 0.26917293667793274, Test_Loss: 0.4880564510822296
Epoch: 30, Train_Loss: 0.3260520398616791, Test_Loss: 0.3275662064552307 *
Epoch: 30, Train_Loss: 0.37063711881637573, Test_Loss: 0.4529496431350708
Epoch: 30, Train_Loss: 0.4091814458370209, Test_Loss: 0.39228111505508423 *
Epoch: 30, Train_Loss: 0.5044263005256653, Test_Loss: 0.34613722562789917 *
Epoch: 30, Train_Loss: 0.30962300300598145, Test_Loss: 0.37086614966392517
Epoch: 30, Train_Loss: 0.5454180240631104, Test_Loss: 0.47766557335853577
Epoch: 30, Train_Loss: 0.39068442583084106, Test_Loss: 0.3230319023132324 *
Epoch: 30, Train_Loss: 0.4229238033294678, Test_Loss: 0.30195844173431396 *
Epoch: 30, Train_Loss: 0.28121379017829895, Test_Loss: 0.3435399532318115
Epoch: 30, Train_Loss: 0.27560171484947205, Test_Loss: 0.3094470500946045 *
Epoch: 30, Train_Loss: 0.3798050284385681, Test_Loss: 0.3290078639984131
Epoch: 30, Train_Loss: 0.7772512435913086, Test_Loss: 0.3083166480064392 *
Epoch: 30, Train_Loss: 0.8645315170288086, Test_Loss: 0.2997797727584839 *
Epoch: 30, Train_Loss: 0.29014530777931213, Test_Loss: 0.2900066673755646 *
Epoch: 30, Train_Loss: 0.28823864459991455, Test_Loss: 0.27534303069114685 *
Epoch: 30, Train_Loss: 0.2644021213054657, Test_Loss: 0.2839745879173279
Epoch: 30, Train_Loss: 0.4327714443206787, Test_Loss: 0.30495038628578186
Epoch: 30, Train_Loss: 0.5701885223388672, Test_Loss: 0.26885083317756653 *
Epoch: 30, Train_Loss: 0.2725350856781006, Test_Loss: 0.28442034125328064
Epoch: 30, Train_Loss: 0.327576220035553, Test_Loss: 0.5008046627044678
Epoch: 30, Train_Loss: 0.34368860721588135, Test_Loss: 0.33100512623786926 *
Epoch: 30, Train_Loss: 1.484302282333374, Test_Loss: 0.2930663228034973 *
Epoch: 30, Train_Loss: 14.084052085876465, Test_Loss: 0.31987687945365906
Epoch: 30, Train_Loss: 0.5693553686141968, Test_Loss: 0.41227370500564575
Epoch: 30, Train_Loss: 1.2139006853103638, Test_Loss: 0.4065009355545044 *
```

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Epoch: 30, Train_Loss: 0.8326072692871094, Test_Loss: 0.2833452820777893 *
Epoch: 30, Train_Loss: 0.3396166265010834, Test_Loss: 0.3170287609100342
Epoch: 30, Train_Loss: 0.6922813653945923, Test_Loss: 0.4212028384208679
Epoch: 30, Train_Loss: 5.592060089111328, Test_Loss: 0.33418792486190796 *
Epoch: 30, Train_Loss: 2.7535102367401123, Test_Loss: 0.31194034218788147 *
Epoch: 30, Train_Loss: 0.3359893560409546, Test_Loss: 0.29632148146629333 *
Epoch: 30, Train_Loss: 1.5080070495605469, Test_Loss: 0.315066039562225534
Epoch: 30, Train_Loss: 4.225985527038574, Test_Loss: 0.3871203660964966
Epoch: 30, Train_Loss: 0.4585825204849243, Test_Loss: 0.5260705947875977
Epoch: 30, Train_Loss: 0.2822904884815216, Test_Loss: 0.7992582321166992
Epoch: 30, Train_Loss: 0.2660314440727234, Test_Loss: 0.7670900821685791 *
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 30
Epoch: 30, Train_Loss: 0.27762970328330994, Test_Loss: 0.554438591003418 *
Epoch: 30, Train_Loss: 0.29748111963272095, Test_Loss: 0.5287997722625732 *
Epoch: 30, Train_Loss: 0.2624865472316742, Test_Loss: 0.41934657096862793 *
Epoch: 30, Train_Loss: 0.2578570246696472, Test_Loss: 0.316532701253891 *
Epoch: 30, Train_Loss: 0.2579842805862427, Test_Loss: 0.29182013869285583 *
Epoch: 30, Train_Loss: 0.25863757729530334, Test_Loss: 0.311596155166626
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Epoch: 30, Train_Loss: 0.27625542879104614, Test_Loss: 0.6944373846054077
Epoch: 30, Train_Loss: 0.29033470153808594, Test_Loss: 0.7008695602416992
Epoch: 30, Train_Loss: 0.33994218707084656, Test_Loss: 1.0493322610855103
Epoch: 30, Train_Loss: 0.3551831543445587, Test_Loss: 1.314889669418335
Epoch: 30, Train_Loss: 0.26337772607803345, Test_Loss: 0.55950528383255 *
Epoch: 30, Train_Loss: 0.2883330285549164, Test_Loss: 0.608071506023407
Epoch: 30, Train_Loss: 0.3637073040008545, Test_Loss: 0.2806192636489868 *
Epoch: 30, Train_Loss: 0.27109381556510925, Test_Loss: 0.2777591347694397 *
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Epoch: 30, Train_Loss: 0.2577287554740906, Test_Loss: 1.181891918182373
Epoch: 30, Train_Loss: 0.2589797079563141, Test_Loss: 0.3243348300457001 *
Epoch: 30, Train_Loss: 0.2622966468334198, Test_Loss: 0.3075639605522156 *
Epoch: 30, Train_Loss: 0.26047447323799133, Test_Loss: 0.2802358865737915 *
Epoch: 30, Train_Loss: 0.257606565952301, Test_Loss: 0.4524347186088562
Epoch: 30, Train_Loss: 0.2619393467903137, Test_Loss: 0.5982833504676819
Epoch: 30, Train_Loss: 0.2868771255016327, Test_Loss: 0.5719519257545471 *
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Epoch: 30, Train_Loss: 0.3354962468147278, Test_Loss: 0.5435020923614502 *
Epoch: 30, Train_Loss: 0.28341755270957947, Test_Loss: 0.2659139931201935 *
Epoch: 30, Train_Loss: 0.3272039592266083, Test_Loss: 0.2762661278247833
Epoch: 30, Train_Loss: 6.2740397453308105, Test_Loss: 0.28315049409866333
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Epoch: 30, Train_Loss: 0.28946101665496826, Test_Loss: 0.45070987939834595 *
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Epoch: 30, Train_Loss: 0.323573499917984, Test_Loss: 0.5301036834716797 *
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Epoch: 30, Train_Loss: 0.28129205107688904, Test_Loss: 0.40056702494621277 *
Epoch: 30, Train_Loss: 0.27094385027885437, Test_Loss: 0.2999635636806488 *
Epoch: 30, Train_Loss: 0.2967110872268677, Test_Loss: 0.3109031915664673
Epoch: 30, Train_Loss: 0.285941481590271, Test_Loss: 0.29042139649391174 *
Epoch: 30, Train_Loss: 0.29657602310180664, Test_Loss: 0.32412979006767273
Epoch: 30, Train_Loss: 0.33141568303108215, Test_Loss: 0.31151148676872253 *
Epoch: 30, Train_Loss: 0.3329245150089264, Test_Loss: 0.29468753933906555 *
Epoch: 30, Train_Loss: 0.3459242880344391, Test_Loss: 0.32446449995040894
Epoch: 30, Train_Loss: 0.2996770739555359, Test_Loss: 0.4156205654144287
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Epoch: 30, Train_Loss: 0.261760026216650696, Test_Loss: 0.3041955530643463 *
Epoch: 30, Train_Loss: 0.2580864429473877, Test_Loss: 0.4415096938610077
Epoch: 30, Train_Loss: 0.4611855149269104, Test_Loss: 0.2614859342575073 *
Epoch: 30, Train_Loss: 3.3321938514709473, Test_Loss: 0.26383867859840393
Epoch: 30, Train_Loss: 0.6725763082504272, Test_Loss: 0.260432630777359 *
Epoch: 30, Train_Loss: 0.25811854004859924, Test_Loss: 0.26504698395729065
Epoch: 30, Train_Loss: 0.2932981848716736, Test_Loss: 0.2767840027809143
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Epoch: 30, Train_Loss: 0.26002973318099976, Test_Loss: 0.9589598178863525 *
Epoch: 30, Train_Loss: 0.26452264189720154, Test_Loss: 0.3705074191093445 *
Epoch: 30, Train_Loss: 0.26192906498908997, Test_Loss: 0.3248688280582428 *
Epoch: 30, Train_Loss: 0.278523325920105, Test_Loss: 0.36365145444869995
Epoch: 30, Train_Loss: 0.2749203145503998, Test_Loss: 0.26760685443878174 *
Epoch: 30, Train_Loss: 0.26976969838142395, Test_Loss: 0.49538642168045044
Epoch: 30, Train_Loss: 0.25781944394111633, Test_Loss: 0.8665632009506226
Epoch: 30, Train_Loss: 0.2611466944217682, Test_Loss: 0.6858211755752563 *
```

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Epoch: 30, Train_Loss: 0.2665649652481079, Test_Loss: 0.5580009818077087 *
Epoch: 30, Train_Loss: 0.2790694534778595, Test_Loss: 0.6285214424133301
Epoch: 30, Train_Loss: 0.2610721290111542, Test_Loss: 0.7230972051620483
Epoch: 30, Train_Loss: 0.2802124321460724, Test_Loss: 0.7091050148010254 *
Epoch: 30, Train_Loss: 0.2676866352558136, Test_Loss: 0.4508301019668579 *
Epoch: 30, Train_Loss: 0.2748732566833496, Test_Loss: 0.42982062697410583 *
Epoch: 30, Train_Loss: 0.25793981552124023, Test_Loss: 0.4430994987487793
Epoch: 30, Train_Loss: 0.2568095326423645, Test_Loss: 0.4145796298980713 *
Epoch: 30, Train_Loss: 0.3293285071849823, Test_Loss: 0.33248305320739746 *
Epoch: 30, Train_Loss: 0.2964063882827759, Test_Loss: 0.5517943501472473
Epoch: 30, Train_Loss: 0.3002038300037384, Test_Loss: 0.3718358278274536 *
Epoch: 30, Train_Loss: 0.3866044282913208, Test_Loss: 0.33729422092437744 *
Epoch: 30, Train_Loss: 0.31487423181533813, Test_Loss: 0.36175909638404846
Epoch: 30, Train_Loss: 0.282562792301178, Test_Loss: 0.3086914122104645 *
Epoch: 30, Train_Loss: 0.2650274336338043, Test_Loss: 0.3206087350845337
Epoch: 30, Train_Loss: 0.27917245030403137, Test_Loss: 0.3465149700641632
Epoch: 30, Train_Loss: 0.31965765357017517, Test_Loss: 0.2853870093822479 *
Epoch: 30, Train_Loss: 0.3019508123397827, Test_Loss: 0.2912805378437042
Epoch: 30, Train_Loss: 0.2665731906890869, Test_Loss: 0.30801746249198914
Epoch: 30, Train_Loss: 0.2580379843711853, Test_Loss: 0.2748473882675171 *
Epoch: 30, Train_Loss: 0.25644731521606445, Test_Loss: 0.2641048729419708 *
Epoch: 30, Train_Loss: 0.25908851623535156, Test_Loss: 0.40339022874832153
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Epoch: 30, Train_Loss: 2.104706287384033, Test_Loss: 0.2797764539718628 *
Epoch: 30, Train_Loss: 0.920903205871582, Test_Loss: 0.2618699073791504 *
Epoch: 30, Train_Loss: 0.2715120315551758, Test_Loss: 0.29221072793006897
Epoch: 30, Train_Loss: 0.26003128290176399, Test_Loss: 0.2819085121154785 *
Epoch: 30, Train_Loss: 0.25918176770210266, Test_Loss: 0.2798020839691162 *
Epoch: 30, Train_Loss: 0.2676999568939209, Test_Loss: 0.27714648842811584 *
Epoch: 30, Train_Loss: 0.2601333260536194, Test_Loss: 0.3991166353225708
Epoch: 30, Train_Loss: 0.25789016485214233, Test_Loss: 0.30147650837898254 *
Epoch: 30, Train_Loss: 0.256286084651947, Test_Loss: 0.25918763875961304 *
Epoch: 30, Train_Loss: 0.2570544183254242, Test_Loss: 0.283822625875473
Epoch: 30, Train_Loss: 0.28543829917907715, Test_Loss: 0.3136991262435913
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 30
Epoch: 30, Train_Loss: 0.29438894987106323, Test_Loss: 0.27203369140625 *
Epoch: 30, Train_Loss: 0.28969913721084595, Test_Loss: 0.37796467542648315
Epoch: 30, Train_Loss: 0.2836343050003052, Test_Loss: 0.33191972970962524 *
Epoch: 30, Train_Loss: 0.26261913776397705, Test_Loss: 0.3443628251552582
Epoch: 30, Train_Loss: 0.2975758910179138, Test_Loss: 0.31321120262145996 *
Epoch: 30, Train_Loss: 0.3034185469150543, Test_Loss: 0.31665319204330444
Epoch: 30, Train_Loss: 0.29025959968566895, Test_Loss: 0.2826763987541199 *
Epoch: 30, Train_Loss: 0.3397248387336731, Test_Loss: 0.29494789242744446
Epoch: 30, Train_Loss: 0.2898216247558594, Test_Loss: 0.39736080169677734
Epoch: 30, Train_Loss: 0.2842380404472351, Test_Loss: 0.3607815206050873 *
Epoch: 30, Train_Loss: 0.25517570972442627, Test_Loss: 0.3437831401824951 *
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Epoch: 30, Train_Loss: 0.25777068734169006, Test_Loss: 0.3064157962799072 *
Epoch: 30, Train_Loss: 0.2581841051578522, Test_Loss: 0.28896045684814453 *
Epoch: 30, Train_Loss: 0.25926703214645386, Test_Loss: 0.285870224237442 *
Epoch: 30, Train_Loss: 0.2581387162208557, Test_Loss: 0.2633547782897949 *
Epoch: 30, Train_Loss: 0.2582101821899414, Test_Loss: 0.2868835926055908
Epoch: 30, Train_Loss: 0.2628512680530548, Test_Loss: 0.266256183385849 *
Epoch: 30, Train_Loss: 0.3182316720485687, Test_Loss: 0.27829474210739136
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Epoch: 30, Train_Loss: 0.35223522782325745, Test_Loss: 0.3013933598995209 *
Epoch: 30, Train_Loss: 0.30796217918395996, Test_Loss: 0.33183956146240234
Epoch: 30, Train_Loss: 0.31391972303390503, Test_Loss: 0.3540381193161011
Epoch: 30, Train_Loss: 0.2794393301010132, Test_Loss: 0.41378194093704224
Epoch: 30, Train_Loss: 0.31536826491355896, Test_Loss: 0.2789503335952759 *
Epoch: 30, Train_Loss: 0.29454439878463745, Test_Loss: 0.34903812408447266
Epoch: 30, Train_Loss: 0.5342505574226379, Test_Loss: 0.4170762598514557
Epoch: 30, Train_Loss: 0.2783041894358826, Test_Loss: 0.42522966861724854
Epoch: 30, Train_Loss: 1.1094279289245605, Test_Loss: 0.3463478088378906 *
Epoch: 30, Train_Loss: 1.3487496376037598, Test_Loss: 0.2791953384876251 *
Epoch: 30, Train_Loss: 0.32253777980804443, Test_Loss: 0.278719425201416 *
Epoch: 30, Train_Loss: 0.28953784704208374, Test_Loss: 0.29679569602012634
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Epoch: 30, Train_Loss: 0.28308066725730896, Test_Loss: 0.6678663492202759 *
Epoch: 30, Train_Loss: 0.25614604353904724, Test_Loss: 0.56501340866608887 *
Epoch: 30, Train_Loss: 0.26054647564888, Test_Loss: 0.7599267959594727
Epoch: 30, Train_Loss: 0.3047245740890503, Test_Loss: 0.4323815703392029 *
Epoch: 30, Train_Loss: 0.28195875883102417, Test_Loss: 0.4746359586715698
Epoch: 30, Train_Loss: 0.27829739451408386, Test_Loss: 0.36817920207977295 *
Epoch: 30, Train_Loss: 0.27117836475372314, Test_Loss: 0.2721496820449829 *
```

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Epoch: 30, Train_Loss: 0.28150710463523865, Test_Loss: 0.2689684331417084 *
Epoch: 30, Train_Loss: 0.263375848531723, Test_Loss: 0.3117562234401703
Epoch: 30, Train_Loss: 0.27664607763290405, Test_Loss: 0.4993717074394226
Epoch: 30, Train_Loss: 0.26987066864967346, Test_Loss: 0.742526650428772
Epoch: 30, Train_Loss: 0.262268789172172546, Test_Loss: 0.6445409059524536 *
Epoch: 30, Train_Loss: 0.265550822019577, Test_Loss: 1.7105581760406494
Epoch: 30, Train_Loss: 0.25486379861831665, Test_Loss: 0.7236504554748535 *
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Epoch: 30, Train_Loss: 0.26574620604515076, Test_Loss: 0.2826625406742096 *
Epoch: 30, Train_Loss: 0.2763758897781372, Test_Loss: 0.2617887556552887 *
Epoch: 30, Train_Loss: 0.25411397218704224, Test_Loss: 0.5563699007034302
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Epoch: 30, Train_Loss: 0.2557699382305145, Test_Loss: 0.47892963886260986 *
Epoch: 30, Train_Loss: 0.2578737139701843, Test_Loss: 0.3580935597419739 *
Epoch: 30, Train_Loss: 0.25768062472343445, Test_Loss: 0.27295681834220886 *
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Epoch: 30, Train_Loss: 0.2559964954853058, Test_Loss: 0.5183982253074646 *
Epoch: 30, Train_Loss: 0.2605612576007843, Test_Loss: 0.2704923152923584 *
Epoch: 30, Train_Loss: 0.25821980834007263, Test_Loss: 0.2697075605392456 *
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Epoch: 30, Train_Loss: 0.26666197180747986, Test_Loss: 0.28610295057296753 *
Epoch: 30, Train_Loss: 0.2616402208805084, Test_Loss: 0.4739137291908264
Epoch: 30, Train_Loss: 0.2653527557849884, Test_Loss: 0.5922645330429077
Epoch: 30, Train_Loss: 0.25691303610801697, Test_Loss: 0.5094895362854004 *
Epoch: 30, Train_Loss: 0.2556779086589813, Test_Loss: 0.32478493452072144 *
Epoch: 30, Train_Loss: 0.26487424969673157, Test_Loss: 0.27327385544776917 *
Epoch: 30, Train_Loss: 0.26385658979415894, Test_Loss: 0.28481411933898926
Epoch: 30, Train_Loss: 0.26321884989738464, Test_Loss: 0.2990371882915497
Epoch: 30, Train_Loss: 0.25479018688201904, Test_Loss: 0.6294902563095093
Epoch: 30, Train_Loss: 0.26333609223365784, Test_Loss: 0.5157254934310913 *
Epoch: 30, Train_Loss: 0.30519723892211914, Test_Loss: 0.652554988861084
Epoch: 30, Train_Loss: 0.2663716971874237, Test_Loss: 0.3555782437324524 *
Epoch: 30, Train_Loss: 0.2756219506263733, Test_Loss: 0.3100327253341675 *
Epoch: 30, Train_Loss: 0.2533591687679291, Test_Loss: 0.266157329082489 *
Epoch: 30, Train_Loss: 0.27850285172462463, Test_Loss: 0.2601987421512604 *
Epoch: 30, Train_Loss: 0.290265291929245, Test_Loss: 0.27843374013900757
Epoch: 30, Train_Loss: 0.2618917226791382, Test_Loss: 0.2781793475151062 *
Epoch: 30, Train_Loss: 0.25971725583076477, Test_Loss: 0.2898902893066406
Epoch: 30, Train_Loss: 0.28762251138687134, Test_Loss: 0.2592676281929016 *
Epoch: 30, Train_Loss: 0.34920811653137207, Test_Loss: 0.35827749967575073
Epoch: 30, Train_Loss: 0.29947909712791443, Test_Loss: 0.6202074885368347
Epoch: 30, Train_Loss: 0.275366872549057, Test_Loss: 0.34524890780448914 *
Epoch: 30, Train_Loss: 0.29941004514694214, Test_Loss: 0.45184797048568726
Epoch: 30, Train_Loss: 0.2603837251663208, Test_Loss: 0.26404136419296265 *
Epoch: 30, Train_Loss: 0.28312069177627563, Test_Loss: 0.2610098719596863 *
Epoch: 30, Train_Loss: 0.2557131052017212, Test_Loss: 0.26385512948036194
Epoch: 30, Train_Loss: 0.2684418261051178, Test_Loss: 0.2634614408016205 *
Epoch: 30, Train_Loss: 0.25736355781555176, Test_Loss: 0.26055508852005005 *
Epoch: 30, Train_Loss: 0.2602522373199463, Test_Loss: 4.15249490737915
Epoch: 30, Train_Loss: 0.3334546983242035, Test_Loss: 2.2879834175109863 *
Epoch: 30, Train_Loss: 0.26068487763404846, Test_Loss: 0.28806787729263306 *
Epoch: 30, Train_Loss: 0.30276674032211304, Test_Loss: 0.2848609983921051 *
Epoch: 30, Train_Loss: 0.264845609664917, Test_Loss: 0.2987499535083771
Epoch: 30, Train_Loss: 0.2865666151046753, Test_Loss: 0.25817203521728516 *
Epoch: 30, Train_Loss: 0.2919405996799469, Test_Loss: 0.2612236440181732
Epoch: 30, Train_Loss: 0.5481525659561157, Test_Loss: 0.47473716735839844
Model saved at location save_model/self_driving_car_model_new.ckpt at epoch 30
Epoch: 30, Train_Loss: 0.26425716280937195, Test_Loss: 0.3887573778629303 *
Epoch: 30, Train_Loss: 0.2745649218559265, Test_Loss: 0.28323519229888916 *
Epoch: 30, Train_Loss: 0.2535611093044281, Test_Loss: 0.36777263879776
Epoch: 30, Train_Loss: 0.2541652023792267, Test_Loss: 0.3379543423652649 *
Epoch: 30, Train_Loss: 0.258316308259964, Test_Loss: 0.5326217412948608
Epoch: 30, Train_Loss: 0.26169806718826294, Test_Loss: 0.3078392744064331 *
Epoch: 30, Train_Loss: 0.2633371949195862, Test_Loss: 0.37980955839157104
Epoch: 30, Train_Loss: 0.2586580812931061, Test_Loss: 0.2877148687839508 *
Epoch: 30, Train_Loss: 0.2623341381549835, Test_Loss: 0.2901225686073303
Epoch: 30, Train_Loss: 0.25788548588752747, Test_Loss: 0.3016943335533142
Epoch: 30, Train_Loss: 0.25988078117370605, Test_Loss: 0.35896992683410645
Epoch: 30, Train_Loss: 0.26651501655578613, Test_Loss: 0.2924593389034271 *
Epoch: 30, Train_Loss: 0.2579820156097412, Test_Loss: 0.25949886441230774 *
Epoch: 30, Train_Loss: 0.254536509513855, Test_Loss: 0.2952810525894165
Epoch: 30, Train_Loss: 0.2703763544559479, Test_Loss: 0.2673865854740143 *
Epoch: 30, Train_Loss: 0.26474210619926455, Test_Loss: 0.2737852931022644
Epoch: 30, Train_Loss: 0.2742491066455841, Test_Loss: 0.30621978640556335
```

```
Epoch: 30, Train_Loss: 0.25487828254699707, Test_Loss: 0.26641973853111267 *
Epoch: 30, Train_Loss: 0.2652835249900818, Test_Loss: 0.26557695865631104 *
Epoch: 30, Train_Loss: 0.26528802514076233, Test_Loss: 0.26853102445602417
Epoch: 30, Train_Loss: 0.27874502539634705, Test_Loss: 0.27856045961380005
Epoch: 30, Train_Loss: 0.26053062081336975, Test_Loss: 0.25255846977233887 *
Epoch: 30, Train_Loss: 0.2720062732696533, Test_Loss: 0.36399948596954346
Epoch: 30, Train_Loss: 0.25352978706359863, Test_Loss: 0.3336527645587921 *
Epoch: 30, Train_Loss: 0.26481738686561584, Test_Loss: 6.064342498779297
Epoch: 30, Train_Loss: 0.2587648630142212, Test_Loss: 0.5428712368011475 *
Epoch: 30, Train_Loss: 0.26894259452819824, Test_Loss: 0.2671428322792053 *
Epoch: 30, Train_Loss: 0.37448105216026306, Test_Loss: 0.2919505536556244
Epoch: 30, Train_Loss: 3.642855167388916, Test_Loss: 0.2768743932247162 *
Epoch: 30, Train_Loss: 2.445547342300415, Test_Loss: 0.2727501392364502 *
Epoch: 30, Train_Loss: 0.2655290961265564, Test_Loss: 0.2658267617225647 *
Epoch: 30, Train_Loss: 0.25510963797569275, Test_Loss: 0.3733334541320801
Epoch: 30, Train_Loss: 0.33765625953674316, Test_Loss: 0.3209230303764343 *
Epoch: 30, Train_Loss: 0.3525018095970154, Test_Loss: 0.25371742248535156 *
Epoch: 30, Train_Loss: 0.27734652161598206, Test_Loss: 0.2737882137298584
Epoch: 30, Train_Loss: 0.25706541538238525, Test_Loss: 0.2837287187576294
Epoch: 30, Train_Loss: 0.30302783846855164, Test_Loss: 0.2620798945426941 *
Epoch: 30, Train_Loss: 0.29175323247909546, Test_Loss: 0.27225106954574585
Epoch: 30, Train_Loss: 0.26032745838165283, Test_Loss: 0.2740127444267273
Epoch: 30, Train_Loss: 0.3893548250198364, Test_Loss: 0.2977685034275055
Epoch: 30, Train_Loss: 0.7274126410484314, Test_Loss: 0.33870115876197815
Epoch: 30, Train_Loss: 0.8069194555282593, Test_Loss: 0.3098905086517334 *
Epoch: 30, Train_Loss: 0.35471269488334656, Test_Loss: 0.3183133006095886
Epoch: 30, Train_Loss: 0.3286306858062744, Test_Loss: 0.25693395733833313 *
Epoch: 30, Train_Loss: 1.626624345779419, Test_Loss: 0.27080827951431274
Epoch: 30, Train_Loss: 1.0268436670303345, Test_Loss: 0.2759200632572174
Epoch: 30, Train_Loss: 0.2687426209449768, Test_Loss: 0.286801815032959
Epoch: 30, Train_Loss: 0.2687467336654663, Test_Loss: 0.2967146039009094
Epoch: 30, Train_Loss: 0.6453881859779358, Test_Loss: 0.2939731776714325 *
Epoch: 30, Train_Loss: 0.7142072916030884, Test_Loss: 0.2782396674156189 *
Epoch: 30, Train_Loss: 0.9886375069618225, Test_Loss: 0.26422902941703796 *
Epoch: 30, Train_Loss: 0.26115304231643677, Test_Loss: 0.2612317204475403 *
Epoch: 30, Train_Loss: 0.28128740191459656, Test_Loss: 0.2776297628879547
Epoch: 30, Train_Loss: 0.3697853684425354, Test_Loss: 0.2754495441913605 *
```

In [12]:

```
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)
```

In [13]:

```
log_frame
```

Out[13]:

	Epoch	Train Loss	Test Loss
0	0	31.096509	30.758518
1	1	28.237732	28.102454
2	2	27.235888	26.641113
3	3	25.113611	25.132473
4	4	24.012218	23.353619
5	5	21.609449	21.471747
6	6	19.758644	19.638440
7	7	18.186861	17.646539
8	8	15.834687	15.667052
9	9	14.384864	13.888145
10	10	12.099833	12.081557
11	11	11.108097	10.468595
12	12	9.193144	9.136619

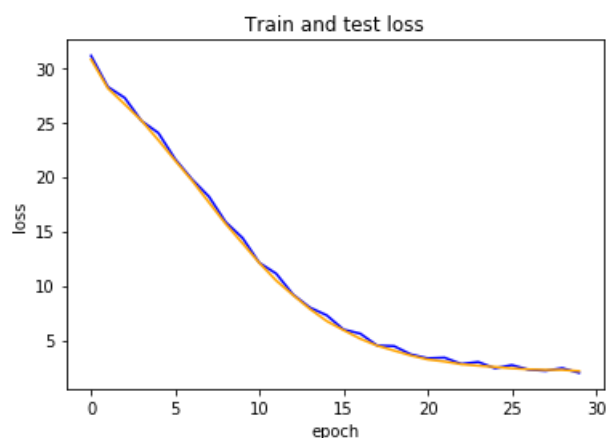|	Epoch	Train Loss	Test Loss
13	13	7.997546	7.865208
14	14	7.288189	6.755052
15	15	5.977243	5.920544
16	16	5.602363	5.128174
17	17	4.510043	4.495645
18	18	4.461168	4.046359
19	19	3.697977	3.593919
20	20	3.340056	3.233539
21	21	3.400370	3.041043
22	22	2.823179	2.795093
23	23	3.004162	2.660086
24	24	2.422638	2.544963
25	25	2.718110	2.417300
26	26	2.301414	2.329843
27	27	2.196320	2.280292
28	28	2.440208	2.277881
29	29	2.003629	2.165855

In [14]:

```python
loss_df = pd.read_csv('save_model/log.csv')
```

In [15]:

```python
%matplotlib inline
import matplotlib.pyplot as plt

plt.title('Train and test loss')
plt.plot(loss_df['Train Loss'], color='blue', label='train')
plt.plot(loss_df['Test Loss'], color='orange', label='test')
filename = 'self_driving_car'
plt.xlabel('epoch')
plt.ylabel('loss')
plt.savefig(filename + '_plot.png')
plt.show()
plt.close()
```


In [ ]:

```python
## from run.py
```

In [19]:

```python
sess = tf.InteractiveSession()
saver = tf.train.Saver()
saver.restore(sess, "save_model/self_driving_car_model_new.ckpt")
```

```
print('press q to quit')

predicted_degrees = []
img = cv2.imread('steering_wheel_image.png', 0)
rows, cols = img.shape

i = 0
while(cv2.waitKey(30) != ord("q")):
    full_image = cv2.imread(test_x[i])
    cv2.imshow('Frame Window', full_image)
    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
    #predicted degrees from radians to degrees.
    #print("Predicted degrees: "+str(degrees))
    predicted_degrees.append(degrees)
    M = cv2.getRotationMatrix2D((cols/2,rows/2), -degrees, 1)
    dst = cv2.warpAffine(src = img, M = M, dsize = (cols, rows))
    cv2.imshow("Steering Wheel", dst)
    i += 1


cv2.destroyAllWindows()
```

```
INFO:tensorflow:Restoring parameters from save_model/self_driving_car_model_new.ckpt
press q to quit
```

Observations

- The updated model of Sully Chen's is performing and works to some extent but it is not as good as the initial one.
- Modifications to the original implementation: Used linear activation function (ELU) and changed drop out rate of Adam optimizer to 1e-4
- The model may have performed better if it had run for more than 30 epochs.

- Maybe the atan function in the output layer makes a lot of difference in the performance.
- Maybe the lower performance is due to the `learning rate` and `dropout` rate changes.