HW3

February 19, 2023

0.1 TECHIN 513 - Basic ML

Instructions

Install the required packages (scikit-learn, TensorFlow, Keras, PyTorch, and, pandas) if they are not already installed.

```python
# use pip to install the packages
# !pip install scikit-learn TensorFlow Keras PyTorch pandas numpy

# Import necessary packages
import numpy as np
from sklearn import datasets
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
import tensorflow as tf
from tensorflow import keras
from keras.utils import to_categorical
from keras.models import Sequential
from keras.layers import Dense
import torch
import torch.nn as nn
import torch.optim as optim
from torch.utils.data import TensorDataset
from torch.utils.data import DataLoader
from torch.autograd import Variable
import random
import matplotlib.pyplot as plt
```

```
2023-02-19 14:35:19.050529: I tensorflow/core/platform/cpu_feature_guard.cc:193]
This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
(oneDNN) to use the following CPU instructions in performance-critical
operations:  AVX2 FMA
To enable them in other operations, rebuild TensorFlow with the appropriate
compiler flags.
```

```python
# Task 1: Load the Iris dataset
iris = datasets.load_iris()
X = iris.data
```

```python
y = iris.target
```

```python
# Task 2: Split the data into training and testing sets
# use train_test_split function to split the data with test_size = 0.2 and
 ↪random_state = 42
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size= 0.2,
 ↪random_state=42)
```

```python
# Task 3: Train a Random Forest Classifier on the training data
# import RandomForestClassifier from sklearn and fit it with training data
clf = RandomForestClassifier()
clf.fit(X_train, y_train)
```

```
RandomForestClassifier()
```

```python
# Task 4: Evaluate the classifier on the testing data
# use clf.score function to evaluate the classifier on the testing data
# print the accuracy of the classifier
score = clf.score(X_test, y_test)
print(score)
```

```
1.0
```

```python
# Task 5: Load the MNIST dataset
# use keras.datasets.mnist.load_data() to load the dataset
(train_images, train_labels), (test_images, test_labels) = keras.datasets.mnist.
 ↪load_data()
print("Train images shape:", train_images.shape)
print("Train labels shape:", train_labels.shape)
print("Test images shape: ", test_images.shape)
print("Test labels shape: ", test_labels.shape)
```

```
Train images shape: (60000, 28, 28)
Train labels shape: (60000,)
Test images shape:  (10000, 28, 28)
Test labels shape:  (10000,)
```

```python
# Task 6: Preprocess the data
# normalize the data by dividing by 255.0
# use to_categorical from keras.utils to one-hot encode the labels
labels_train = keras.utils.to_categorical(train_labels, 10)
labels_test = keras.utils.to_categorical(test_labels, 10)
print(labels_train.shape)
print(labels_test.shape)
train_images = train_images.astype('float32') / 255
test_images = test_images.astype('float32') / 255
train_images = np.expand_dims(train_images, axis=3)
test_images = np.expand_dims(test_images, axis=3)
```

```
print(train_images.shape[1:4])
print(test_images.shape[1:4])
```

```
(60000, 10)
(10000, 10)
(28, 28, 1)
(28, 28, 1)
```

```python
# Task 7: Define and train a simple neural network using Keras
# use Sequential model from keras.models
# use Dense layer from keras.layers
# use 'adam' as optimizer and 'categorical_crossentropy' as loss function
# use model.fit to train the model
model = keras.models.Sequential()
input_shapes = [(28, 28, 1), 32, 64, 10]
model.add(keras.Input(shape=input_shapes[0]))
model.add(keras.layers.Conv2D(input_shapes[1], kernel_size=(3,3),
  padding="same", activation='relu'))
model.add(keras.layers.MaxPooling2D(pool_size=(2,2), padding="same"))
model.add(keras.layers.Conv2D(input_shapes[2], kernel_size=(3,3),
  padding="same", activation='relu'))
model.add(keras.layers.MaxPooling2D(pool_size=(2,2), padding="same",))
model.add(keras.layers.Flatten())
model.add(keras.layers.Dropout(0.5))
model.add(keras.layers.Dense(input_shapes[3], activation='softmax'))
model.compile(
    optimizer = "adam",
    loss = 'categorical_crossentropy',
    metrics = ['accuracy']
)
print(model.summary())
model.fit(train_images, labels_train, batch_size=128, epochs=15,
  validation_split=0.1)
```

```
Model: "sequential"

_____
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 28, 28, 32)        320

 max_pooling2d (MaxPooling2D  (None, 14, 14, 32)        0
 )

 conv2d_1 (Conv2D)           (None, 14, 14, 64)        18496

 max_pooling2d_1 (MaxPooling  (None, 7, 7, 64)          0
 2D)
```

3

```
 flatten (Flatten)            (None, 3136)            0

 dropout (Dropout)            (None, 3136)            0

 dense (Dense)                (None, 10)              31370

=================================================================
Total params: 50,186
Trainable params: 50,186
Non-trainable params: 0

_____
2023-02-19 14:35:35.048355: I tensorflow/core/platform/cpu_feature_guard.cc:193]
This TensorFlow binary is optimized with oneAPI Deep Neural Network Library
(oneDNN) to use the following CPU instructions in performance-critical
operations:  AVX2 FMA
To enable them in other operations, rebuild TensorFlow with the appropriate
compiler flags.

None
Epoch 1/15
422/422 [==============================] - 14s 32ms/step - loss: 0.3380 -
accuracy: 0.8989 - val_loss: 0.0811 - val_accuracy: 0.9790
Epoch 2/15
422/422 [==============================] - 15s 36ms/step - loss: 0.1058 -
accuracy: 0.9670 - val_loss: 0.0596 - val_accuracy: 0.9840
Epoch 3/15
422/422 [==============================] - 16s 38ms/step - loss: 0.0775 -
accuracy: 0.9760 - val_loss: 0.0472 - val_accuracy: 0.9878
Epoch 4/15
422/422 [==============================] - 17s 39ms/step - loss: 0.0660 -
accuracy: 0.9798 - val_loss: 0.0417 - val_accuracy: 0.9893
Epoch 5/15
422/422 [==============================] - 18s 41ms/step - loss: 0.0572 -
accuracy: 0.9823 - val_loss: 0.0407 - val_accuracy: 0.9885
Epoch 6/15
422/422 [==============================] - 18s 42ms/step - loss: 0.0528 -
accuracy: 0.9830 - val_loss: 0.0359 - val_accuracy: 0.9903
Epoch 7/15
422/422 [==============================] - 17s 40ms/step - loss: 0.0493 -
accuracy: 0.9841 - val_loss: 0.0338 - val_accuracy: 0.9910
Epoch 8/15
422/422 [==============================] - 17s 41ms/step - loss: 0.0439 -
accuracy: 0.9856 - val_loss: 0.0335 - val_accuracy: 0.9915
Epoch 9/15
422/422 [==============================] - 18s 42ms/step - loss: 0.0412 -
accuracy: 0.9868 - val_loss: 0.0337 - val_accuracy: 0.9912
Epoch 10/15
```

```
422/422 [==============================] - 18s 42ms/step - loss: 0.0380 -
accuracy: 0.9879 - val_loss: 0.0299 - val_accuracy: 0.9925
Epoch 11/15
422/422 [==============================] - 18s 43ms/step - loss: 0.0350 -
accuracy: 0.9887 - val_loss: 0.0327 - val_accuracy: 0.9917
Epoch 12/15
422/422 [==============================] - 18s 43ms/step - loss: 0.0354 -
accuracy: 0.9882 - val_loss: 0.0316 - val_accuracy: 0.9922
Epoch 13/15
422/422 [==============================] - 18s 42ms/step - loss: 0.0348 -
accuracy: 0.9884 - val_loss: 0.0324 - val_accuracy: 0.9913
Epoch 14/15
422/422 [==============================] - 18s 43ms/step - loss: 0.0318 -
accuracy: 0.9891 - val_loss: 0.0302 - val_accuracy: 0.9917
Epoch 15/15
422/422 [==============================] - 19s 45ms/step - loss: 0.0315 -
accuracy: 0.9896 - val_loss: 0.0277 - val_accuracy: 0.9927
```

[ ]: `<keras.callbacks.History at 0x7fe6320a7dd0>`

[ ]:
```python
# Task 8: Evaluate the neural network on the testing data
# use model.evaluate to get the test loss and test accuracy
scores = model.evaluate(test_images, labels_test)
print("Accuracy: %d%%" % (scores[1]*100))
```

```
313/313 [==============================] - 3s 10ms/step - loss: 0.0251 -
accuracy: 0.9920
Accuracy: 99%
```

[ ]:
```python
# Task 9: Define a simple linear regression model using PyTorch
# create a class LinearRegression that inherit from nn.Module
# define the constructor and forward function
class LinearRegression(nn.Module):
    def __init__(self, input_size, output_size):
        super(LinearRegression, self).__init__()
        self.linear = nn.Linear(input_size, output_size)

    def forward(self, x):
        y = self.linear(x)
        # self.activation = nn.ReLU()
        return y
```

[ ]:
```python
# Task 10: Train the linear regression model on some dummy data and print the
  ↪weight and bias
# create an instance of LinearRegression
# use nn.MSELoss as criterion, optim.SGD as optimizer
# use model.parameters() as input for optimizer
# use optimizer.step() and criterion to update the model weight and bias
```

5

```python
# random data
def generate_data(data_size):
    x = torch.Tensor([[random.random()] for _ in range(data_size)])
    # x = np.array([5, 15, 25, 35, 45, 55]).reshape((-1, 1))
    return x

def linear_equation(x):
    return torch.add(torch.mul(x, 2), 3) # y = 2*x + 3

epochs = 10000
data_size = random.randint(100, 2000)
datax = generate_data(data_size)
datay = linear_equation(datax)
x_data = Variable(datax)
y_data = Variable(datay)

linear = LinearRegression(1, 1)
criterion = nn.MSELoss(size_average=False)
optimizer = optim.SGD(linear.parameters(), lr=0.0005, weight_decay=0.9)


for epoch in range(epochs):
    pred_y = linear(x_data)
    loss = criterion(pred_y, y_data)
    loss.backward()
    optimizer.step()
    print('epoch {}, loss {}, datasize {}'.format(epoch, loss.item(),␣
  ↪len(x_data)))

# testx = generate_data(10)
# testy = linear_equation(testx)
# x_test = Variable(testx)
# y_test = Variable(testy)
pred_y = linear(x_data)

plt.plot(datax, datay, label="Equation")
plt.plot(datax, pred_y.detach().numpy(), label="model")
plt.legend()
plt.show()
```

```
epoch 0, loss 11880.728515625, datasize 1575
epoch 1, loss 11795.544921875, datasize 1575
epoch 2, loss 11938.8935546875, datasize 1575
epoch 3, loss 11715.177734375, datasize 1575
epoch 4, loss 11996.97265625, datasize 1575
epoch 5, loss 11635.3408203125, datasize 1575
epoch 6, loss 12055.509765625, datasize 1575
```

```
epoch 7, loss 11556.201171875, datasize 1575
epoch 8, loss 12114.2412109375, datasize 1575
epoch 9, loss 11477.12890625, datasize 1575
epoch 10, loss 12172.4111328125, datasize 1575
epoch 11, loss 11397.6015625, datasize 1575
epoch 12, loss 12229.9296875, datasize 1575
epoch 13, loss 11317.9638671875, datasize 1575
epoch 14, loss 12287.451171875, datasize 1575
epoch 15, loss 11238.9287109375, datasize 1575
epoch 16, loss 12345.4306640625, datasize 1575
epoch 17, loss 11160.552734375, datasize 1575
epoch 18, loss 12403.494140625, datasize 1575
epoch 19, loss 11082.1708984375, datasize 1575
epoch 20, loss 12460.9375, datasize 1575
epoch 21, loss 11003.32421875, datasize 1575
epoch 22, loss 12517.7646484375, datasize 1575
epoch 23, loss 10924.490234375, datasize 1575
epoch 24, loss 12574.6640625, datasize 1575
epoch 25, loss 10846.3046875, datasize 1575
epoch 26, loss 12632.03125, datasize 1575
epoch 27, loss 10768.73046875, datasize 1575
epoch 28, loss 12689.3544921875, datasize 1575
epoch 29, loss 10691.064453125, datasize 1575
epoch 30, loss 12746.015625, datasize 1575
epoch 31, loss 10612.9755859375, datasize 1575
epoch 32, loss 12802.09375, datasize 1575
epoch 33, loss 10535.0, datasize 1575
epoch 34, loss 12858.34375, datasize 1575
epoch 35, loss 10457.748046875, datasize 1575
epoch 36, loss 12915.02734375, datasize 1575
epoch 37, loss 10381.0224609375, datasize 1575
epoch 38, loss 12971.5703125, datasize 1575
epoch 39, loss 10304.125, datasize 1575
epoch 40, loss 13027.376953125, datasize 1575
epoch 41, loss 10226.8427734375, datasize 1575
epoch 42, loss 13082.6953125, datasize 1575
epoch 43, loss 10149.787109375, datasize 1575
epoch 44, loss 13138.244140625, datasize 1575
epoch 45, loss 10073.4921875, datasize 1575
epoch 46, loss 13194.17578125, datasize 1575
epoch 47, loss 9997.6484375, datasize 1575
epoch 48, loss 13249.85546875, datasize 1575
epoch 49, loss 9921.5576171875, datasize 1575
epoch 50, loss 13304.7802734375, datasize 1575
epoch 51, loss 9845.1474609375, datasize 1575
epoch 52, loss 13359.298828125, datasize 1575
epoch 53, loss 9769.064453125, datasize 1575
epoch 54, loss 13414.099609375, datasize 1575
```

```
epoch 55, loss 9693.76953125, datasize 1575
epoch 56, loss 13469.2294921875, datasize 1575
epoch 57, loss 9618.853515625, datasize 1575
epoch 58, loss 13523.98046875, datasize 1575
epoch 59, loss 9543.6455078125, datasize 1575
epoch 60, loss 13577.97265625, datasize 1575
epoch 61, loss 9468.1884765625, datasize 1575
epoch 62, loss 13631.640625, datasize 1575
epoch 63, loss 9393.1533203125, datasize 1575
epoch 64, loss 13685.654296875, datasize 1575
epoch 65, loss 9318.900390625, datasize 1575
epoch 66, loss 13739.8955078125, datasize 1575
epoch 67, loss 9244.9541015625, datasize 1575
epoch 68, loss 13793.685546875, datasize 1575
epoch 69, loss 9170.6669921875, datasize 1575
epoch 70, loss 13846.701171875, datasize 1575
epoch 71, loss 9096.193359375, datasize 1575
epoch 72, loss 13899.4951171875, datasize 1575
epoch 73, loss 9022.248046875, datasize 1575
epoch 74, loss 13952.6484375, datasize 1575
epoch 75, loss 8949.076171875, datasize 1575
epoch 76, loss 14005.9599609375, datasize 1575
epoch 77, loss 8876.1123046875, datasize 1575
epoch 78, loss 14058.71484375, datasize 1575
epoch 79, loss 8802.7890625, datasize 1575
epoch 80, loss 14110.7373046875, datasize 1575
epoch 81, loss 8729.369140625, datasize 1575
epoch 82, loss 14162.615234375, datasize 1575
epoch 83, loss 8656.5703125, datasize 1575
epoch 84, loss 14214.865234375, datasize 1575
epoch 85, loss 8584.51171875, datasize 1575
epoch 86, loss 14267.185546875, datasize 1575
epoch 87, loss 8512.560546875, datasize 1575
epoch 88, loss 14318.8740234375, datasize 1575
epoch 89, loss 8440.2548828125, datasize 1575
epoch 90, loss 14369.8583984375, datasize 1575
epoch 91, loss 8367.9619140625, datasize 1575
epoch 92, loss 14420.7822265625, datasize 1575
epoch 93, loss 8296.3486328125, datasize 1575
epoch 94, loss 14472.091796875, datasize 1575
epoch 95, loss 8225.431640625, datasize 1575
epoch 96, loss 14523.357421875, datasize 1575
epoch 97, loss 8154.54541015625, datasize 1575
epoch 98, loss 14573.9140625, datasize 1575
epoch 99, loss 8083.31298828125, datasize 1575
epoch 100, loss 14623.828125, datasize 1575
epoch 101, loss 8012.197265625, datasize 1575
epoch 102, loss 14673.755859375, datasize 1575
```

```
epoch 103, loss 7941.81982421875, datasize 1575
epoch 104, loss 14724.0478515625, datasize 1575
epoch 105, loss 7872.0859375, datasize 1575
epoch 106, loss 14774.20703125, datasize 1575
epoch 107, loss 7802.294921875, datasize 1575
epoch 108, loss 14823.6025390625, datasize 1575
epoch 109, loss 7732.18212890625, datasize 1575
epoch 110, loss 14872.4091796875, datasize 1575
epoch 111, loss 7662.28564453125, datasize 1575
epoch 112, loss 14921.3154296875, datasize 1575
epoch 113, loss 7593.18115234375, datasize 1575
epoch 114, loss 14970.5537109375, datasize 1575
epoch 115, loss 7524.65625, datasize 1575
epoch 116, loss 15019.5341796875, datasize 1575
epoch 117, loss 7455.9931640625, datasize 1575
epoch 118, loss 15067.736328125, datasize 1575
epoch 119, loss 7387.06103515625, datasize 1575
epoch 120, loss 15115.421875, datasize 1575
epoch 121, loss 7318.44921875, datasize 1575
epoch 122, loss 15163.275390625, datasize 1575
epoch 123, loss 7250.65673828125, datasize 1575
epoch 124, loss 15211.39453125, datasize 1575
epoch 125, loss 7183.3505859375, datasize 1575
epoch 126, loss 15259.1728515625, datasize 1575
epoch 127, loss 7115.88134765625, datasize 1575
epoch 128, loss 15306.1337890625, datasize 1575
epoch 129, loss 7048.18115234375, datasize 1575
epoch 130, loss 15352.662109375, datasize 1575
epoch 131, loss 6980.9140625, datasize 1575
epoch 132, loss 15399.4169921875, datasize 1575
epoch 133, loss 6914.4677734375, datasize 1575
epoch 134, loss 15446.3720703125, datasize 1575
epoch 135, loss 6848.423828125, datasize 1575
epoch 136, loss 15492.880859375, datasize 1575
epoch 137, loss 6782.16259765625, datasize 1575
epoch 138, loss 15538.578125, datasize 1575
epoch 139, loss 6715.73876953125, datasize 1575
epoch 140, loss 15583.9345703125, datasize 1575
epoch 141, loss 6649.8271484375, datasize 1575
epoch 142, loss 15629.5498046875, datasize 1575
epoch 143, loss 6584.74462890625, datasize 1575
epoch 144, loss 15675.298828125, datasize 1575
epoch 145, loss 6519.9931640625, datasize 1575
epoch 146, loss 15720.5009765625, datasize 1575
epoch 147, loss 6454.9736328125, datasize 1575
epoch 148, loss 15764.9013671875, datasize 1575
epoch 149, loss 6389.88330078125, datasize 1575
epoch 150, loss 15809.0361328125, datasize 1575
```

```
epoch 151, loss 6325.4033203125, datasize 1575
epoch 152, loss 15853.46875, datasize 1575
epoch 153, loss 6261.720703125, datasize 1575
epoch 154, loss 15897.9541015625, datasize 1575
epoch 155, loss 6198.2685546875, datasize 1575
epoch 156, loss 15941.80078125, datasize 1575
epoch 157, loss 6134.533203125, datasize 1575
epoch 158, loss 15984.8798828125, datasize 1575
epoch 159, loss 6070.82275390625, datasize 1575
epoch 160, loss 16027.78515625, datasize 1575
epoch 161, loss 6007.8134765625, datasize 1575
epoch 162, loss 16070.994140625, datasize 1575
epoch 163, loss 5945.54736328125, datasize 1575
epoch 164, loss 16114.158203125, datasize 1575
epoch 165, loss 5883.43359375, datasize 1575
epoch 166, loss 16156.6142578125, datasize 1575
epoch 167, loss 5821.041015625, datasize 1575
epoch 168, loss 16198.353515625, datasize 1575
epoch 169, loss 5758.75244140625, datasize 1575
epoch 170, loss 16240.00390625, datasize 1575
epoch 171, loss 5697.21484375, datasize 1575
epoch 172, loss 16281.9462890625, datasize 1575
epoch 173, loss 5636.40380859375, datasize 1575
epoch 174, loss 16323.7587890625, datasize 1575
epoch 175, loss 5575.6494140625, datasize 1575
epoch 176, loss 16364.798828125, datasize 1575
epoch 177, loss 5514.63134765625, datasize 1575
epoch 178, loss 16405.173828125, datasize 1575
epoch 179, loss 5453.82275390625, datasize 1575
epoch 180, loss 16445.544921875, datasize 1575
epoch 181, loss 5393.8134765625, datasize 1575
epoch 182, loss 16486.1875, datasize 1575
epoch 183, loss 5334.46435546875, datasize 1575
epoch 184, loss 16526.583984375, datasize 1575
epoch 185, loss 5275.0986328125, datasize 1575
epoch 186, loss 16566.185546875, datasize 1575
epoch 187, loss 5215.49560546875, datasize 1575
epoch 188, loss 16605.18359375, datasize 1575
epoch 189, loss 5156.1982421875, datasize 1575
epoch 190, loss 16644.244140625, datasize 1575
epoch 191, loss 5097.73681640625, datasize 1575
epoch 192, loss 16683.5390625, datasize 1575
epoch 193, loss 5039.85791015625, datasize 1575
epoch 194, loss 16722.498046875, datasize 1575
epoch 195, loss 4981.89501953125, datasize 1575
epoch 196, loss 16760.619140625, datasize 1575
epoch 197, loss 4923.74462890625, datasize 1575
epoch 198, loss 16798.203125, datasize 1575
```

```
epoch 199, loss 4866.00390625, datasize 1575
epoch 200, loss 16835.916015625, datasize 1575
epoch 201, loss 4809.11767578125, datasize 1575
epoch 202, loss 16873.81640625, datasize 1575
epoch 203, loss 4752.744140625, datasize 1575
epoch 204, loss 16911.287109375, datasize 1575
epoch 205, loss 4696.22802734375, datasize 1575
epoch 206, loss 16947.9140625, datasize 1575
epoch 207, loss 4639.57373046875, datasize 1575
epoch 208, loss 16984.087890625, datasize 1575
epoch 209, loss 4583.4208984375, datasize 1575
epoch 210, loss 17020.4453125, datasize 1575
epoch 211, loss 4528.1376953125, datasize 1575
epoch 212, loss 17056.919921875, datasize 1575
epoch 213, loss 4473.25830078125, datasize 1575
epoch 214, loss 17092.859375, datasize 1575
epoch 215, loss 4418.20361328125, datasize 1575
epoch 216, loss 17127.96875, datasize 1575
epoch 217, loss 4363.0986328125, datasize 1575
epoch 218, loss 17162.724609375, datasize 1575
epoch 219, loss 4308.56982421875, datasize 1575
epoch 220, loss 17197.681640625, datasize 1575
epoch 221, loss 4254.8974609375, datasize 1575
epoch 222, loss 17232.6953125, datasize 1575
epoch 223, loss 4201.55224609375, datasize 1575
epoch 224, loss 17267.08984375, datasize 1575
epoch 225, loss 4148.0029296875, datasize 1575
epoch 226, loss 17300.6640625, datasize 1575
epoch 227, loss 4094.46044921875, datasize 1575
epoch 228, loss 17333.96875, datasize 1575
epoch 229, loss 4041.58837890625, datasize 1575
epoch 230, loss 17367.5078125, datasize 1575
epoch 231, loss 3989.53857421875, datasize 1575
epoch 232, loss 17401.01171875, datasize 1575
epoch 233, loss 3937.728515625, datasize 1575
epoch 234, loss 17433.814453125, datasize 1575
epoch 235, loss 3885.6953125, datasize 1575
epoch 236, loss 17465.830078125, datasize 1575
epoch 237, loss 3833.77392578125, datasize 1575
epoch 238, loss 17497.677734375, datasize 1575
epoch 239, loss 3782.58203125, datasize 1575
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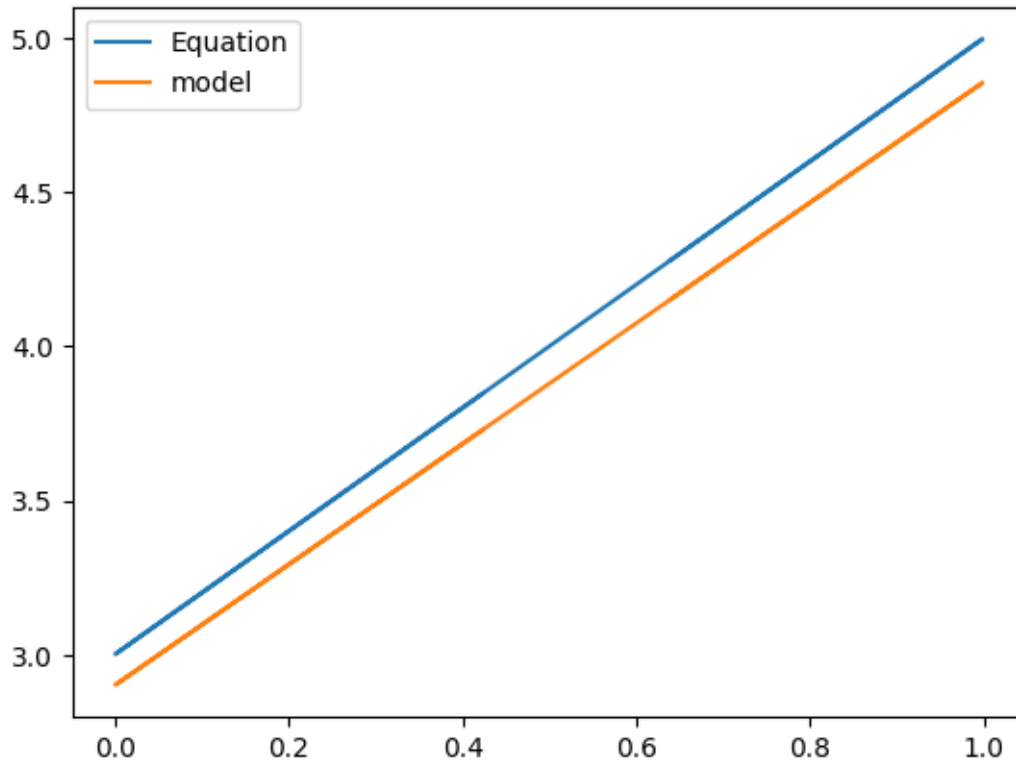
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1 Bonus

```
[ ]: # Bonus Task: Implement a Convolutional Neural Network to classify the CIFAR-10
     ↪dataset
     # use torchvision.datasets.CIFAR10 to load the dataset
     # create a class CNN that inherit from nn.Module
     # define the constructor, forward function and the network architecture
     # use CrossEntropyLoss as criterion, optim.SGD as optimizer
     # use model.parameters() as input for optimizer
     # use optimizer.step() and criterion to update the model weight and bias
```