main

July 24, 2024

[ ]:
```
import numpy as np
import os
import matplotlib.pyplot as plt
import matplotlib.image as img
import tensorflow as tf
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Dense
from tensorflow.keras.activations import linear, relu
from sklearn.metrics import accuracy_score
```

[ ]:
```
TRAIN_DATA_PATH = 'd:\\Projects\\hand-sign-ml\\data\\train'
TEST_DATA_PATH = 'd:\\Projects\\hand-sign-ml\\data\\test'
```

[ ]:
```
os.chdir(TRAIN_DATA_PATH)
letters  = os.listdir()
```

[ ]:
```
def seed(path):

    X_raw = []
    Y_raw = []

    for letter in letters:

        dir = path + "\\"+ letter
        letter_index = letters.index(letter)
        os.chdir(dir)
        files = os.listdir()

        for file in files:
            file_path = dir + "\\" + file
            X_raw.append(img.imread(file_path).reshape(28*28))
            Y_raw.append(letter_index)

    X = np.array(X_raw)
    Y = np.array(Y_raw).reshape(X.shape[0],1)

    return X,Y
```

[ ]:
```
X_train, Y_train = seed(TRAIN_DATA_PATH)
X_test, Y_test = seed(TEST_DATA_PATH)
```

[ ]:
```
tf.random.set_seed(1234)

model = Sequential(
    [
        tf.keras.Input(shape=(784,)),
        Dense(units=640,activation="relu",name="L1"),
        Dense(units=360,activation="relu",name="L2"),
        Dense(units=180,activation="relu",name="L3"),
        Dense(units=96,activation="relu",name="L4"),
        Dense(units=56,activation="relu",name="L5"),
        Dense(units=24,activation="linear",name="L6")
    ], name = "hand_sign_model"
)
```

[ ]:
```
model.summary()
```

Model: "hand_sign_model"

Layer (type)	Output Shape	Param #
L1 (Dense)	(None, 640)	502,400
L2 (Dense)	(None, 360)	230,760
L3 (Dense)	(None, 180)	64,980
L4 (Dense)	(None, 96)	17,376
L5 (Dense)	(None, 56)	5,432
L6 (Dense)	(None, 24)	1,368

Total params: 822,316 (3.14 MB)

Trainable params: 822,316 (3.14 MB)

Non-trainable params: 0 (0.00 B)

[ ]:
```
model.compile(
    loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True),
    optimizer=tf.keras.optimizers.Adam(learning_rate=0.001),
)

history = model.fit(
    X_train,Y_train,
    epochs=40
)
```

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Epoch 1/40
858/858            9s 9ms/step -
loss: 12.4758
Epoch 2/40
858/858            8s 10ms/step -
loss: 1.4606
Epoch 3/40
858/858            8s 10ms/step -
loss: 1.0167
Epoch 4/40
858/858            8s 10ms/step -
loss: 0.7845
Epoch 5/40
858/858            8s 9ms/step -
loss: 0.6132
Epoch 6/40
858/858            8s 10ms/step -
loss: 0.4610
Epoch 7/40
858/858            8s 10ms/step -
loss: 0.4261
Epoch 8/40
858/858            8s 9ms/step -
loss: 0.3686
Epoch 9/40
858/858            9s 8ms/step -
loss: 0.2523
Epoch 10/40
858/858            9s 10ms/step -
loss: 0.2751
Epoch 11/40
858/858            9s 10ms/step -
loss: 0.2427
Epoch 12/40
858/858            8s 10ms/step -
loss: 0.2014
Epoch 13/40
858/858            9s 10ms/step -
```

```
loss: 0.1677
Epoch 14/40
858/858            8s 9ms/step -
loss: 0.1187
Epoch 15/40
858/858            8s 9ms/step -
loss: 0.1555
Epoch 16/40
858/858            8s 10ms/step -
loss: 0.0838
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858/858            9s 10ms/step -
loss: 0.2369
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858/858            9s 10ms/step -
loss: 0.1244
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858/858            8s 10ms/step -
loss: 0.0569
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858/858            9s 10ms/step -
loss: 3.2941e-04
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858/858            9s 10ms/step -
loss: 1.3215e-04
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858/858            9s 10ms/step -
loss: 7.0957e-05
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858/858            8s 10ms/step -
loss: 2.5132e-05
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858/858            9s 10ms/step -
loss: 1.5635e-05
Epoch 26/40
858/858            8s 10ms/step -
loss: 9.5080e-06
Epoch 27/40
858/858            8s 10ms/step -
loss: 5.8798e-06
Epoch 28/40
858/858            8s 10ms/step -
loss: 3.6581e-06
Epoch 29/40
858/858            8s 10ms/step -
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loss: 2.2586e-06
Epoch 30/40
858/858             8s 10ms/step -
loss: 1.4386e-06
Epoch 31/40
858/858             8s 10ms/step -
loss: 9.1243e-07
Epoch 32/40
858/858             8s 10ms/step -
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858/858             9s 10ms/step -
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858/858             8s 10ms/step -
loss: 8.4116e-08
Epoch 37/40
858/858             8s 10ms/step -
loss: 5.3461e-08
Epoch 38/40
858/858             8s 10ms/step -
loss: 3.3806e-08
Epoch 39/40
858/858             8s 10ms/step -
loss: 2.4953e-08
Epoch 40/40
858/858             9s 10ms/step -
loss: 1.3740e-08
```

[ ]:
```python
def predicted_index(x):
    prediction = model.predict(x.reshape(1,28*28))
    prediction_p = tf.nn.softmax(prediction)
    return np.argmax(prediction_p)

y_predicted = list(map(predicted_index, X_test))
```

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1/1             0s 66ms/step
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1/1             0s 46ms/step
1/1             0s 55ms/step
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1/1             0s 60ms/step
1/1             0s 55ms/step
1/1             0s 49ms/step
1/1             0s 53ms/step
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1/1             0s 54ms/step
1/1             0s 59ms/step
1/1             0s 56ms/step
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1/1             0s 52ms/step
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1/1             0s 50ms/step
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1/1             0s 58ms/step
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1/1             0s 76ms/step
1/1             0s 50ms/step
1/1             0s 59ms/step
1/1             0s 46ms/step
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1/1             0s 61ms/step
1/1             0s 54ms/step
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1/1             0s 47ms/step
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1/1             0s 62ms/step
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1/1             0s 56ms/step
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1/1             0s 54ms/step
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1/1             0s 55ms/step
1/1             0s 53ms/step
1/1             0s 72ms/step
1/1             0s 51ms/step
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1/1             0s 55ms/step
1/1             0s 49ms/step
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```

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1/1             0s 51ms/step
1/1             0s 50ms/step
1/1             0s 56ms/step
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1/1             0s 53ms/step
1/1             0s 57ms/step
1/1             0s 56ms/step
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1/1             0s 55ms/step
1/1             0s 61ms/step
1/1             0s 55ms/step
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1/1             0s 48ms/step
1/1             0s 51ms/step
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1/1             0s 52ms/step
1/1             0s 50ms/step
1/1             0s 47ms/step
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1/1             0s 43ms/step
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1/1             0s 55ms/step
```

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1/1             0s 52ms/step
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1/1             0s 57ms/step
1/1             0s 57ms/step
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1/1             0s 51ms/step
1/1             0s 45ms/step
1/1             0s 58ms/step
1/1             0s 54ms/step
1/1             0s 46ms/step
1/1             0s 58ms/step
1/1             0s 59ms/step
1/1             0s 54ms/step
1/1             0s 50ms/step
1/1             0s 41ms/step
1/1             0s 52ms/step
1/1             0s 50ms/step
1/1             0s 53ms/step
1/1             0s 58ms/step
1/1             0s 46ms/step
1/1             0s 46ms/step
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1/1             0s 54ms/step
1/1             0s 52ms/step
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```

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1/1             0s 58ms/step
1/1             0s 71ms/step
1/1             0s 47ms/step
1/1             0s 52ms/step
1/1             0s 47ms/step
1/1             0s 51ms/step
1/1             0s 44ms/step
1/1             0s 48ms/step
1/1             0s 41ms/step
1/1             0s 47ms/step
1/1             0s 53ms/step
1/1             0s 54ms/step
1/1             0s 47ms/step
1/1             0s 48ms/step
1/1             0s 49ms/step
1/1             0s 55ms/step
1/1             0s 52ms/step
1/1             0s 57ms/step
1/1             0s 50ms/step
1/1             0s 51ms/step
1/1             0s 49ms/step
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1/1             0s 55ms/step
1/1             0s 52ms/step
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1/1             0s 54ms/step
1/1             0s 59ms/step
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1/1             0s 51ms/step
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1/1             0s 46ms/step
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1/1             0s 51ms/step
1/1             0s 51ms/step
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1/1             0s 59ms/step
1/1             0s 57ms/step
1/1             0s 52ms/step
1/1             0s 57ms/step
1/1             0s 47ms/step
1/1             0s 53ms/step
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1/1             0s 55ms/step
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1/1             0s 56ms/step
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1/1             0s 52ms/step
1/1             0s 56ms/step
1/1             0s 51ms/step
1/1             0s 57ms/step
1/1             0s 54ms/step
1/1             0s 48ms/step
1/1             0s 55ms/step
1/1             0s 45ms/step
1/1             0s 63ms/step
1/1             0s 70ms/step
1/1             0s 56ms/step
1/1             0s 52ms/step
1/1             0s 58ms/step
1/1             0s 55ms/step
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1/1             0s 55ms/step
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1/1             0s 59ms/step
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1/1             0s 50ms/step
1/1             0s 50ms/step
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1/1             0s 52ms/step
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1/1             0s 33ms/step
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1/1             0s 42ms/step
1/1             0s 46ms/step
1/1             0s 35ms/step
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1/1             0s 43ms/step
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1/1             0s 33ms/step
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1/1             0s 50ms/step
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1/1             0s 48ms/step
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1/1             0s 38ms/step
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1/1             0s 50ms/step
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1/1             0s 25ms/step
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1/1             0s 34ms/step
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1/1             0s 37ms/step
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1/1             0s 34ms/step
1/1             0s 17ms/step
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1/1             0s 17ms/step
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1/1             0s 34ms/step
1/1             0s 30ms/step
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1/1             0s 30ms/step
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1/1             0s 33ms/step
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```

[ ]:
```
accuracy = accuracy_score(Y_test.reshape(Y_test.shape[0]),y_predicted)
print(f'Model has accuray of {100*accuracy:.2f}%')
```

```
Model has accuray of 83.13%
```