

The Computer Vision Project: Gesture recognition.

<https://towardsdatascience.com/sign-language-recognition-in-pytorch-5d72688f98b7>

<https://www.youtube.com/watch?v=UxWhqI8BvCA>

```
import torch
import torchvision
import torchvision.datasets as datasets
import torch.nn as nn
import torch.nn.functional as F
import torch.optim as optim
from torch.autograd import Variable
import torchvision.transforms as transforms

from IPython.display import Image

import matplotlib.pyplot as plt

import random

import numpy as np
import pandas as pd

from time import time

import seaborn as sns
from google.colab import files
```

Changed to MyDrive to reduce the upload time

```
from google.colab import drive
drive.mount('/content/drive')

# train_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVi
# train_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVi
# train_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVi
train_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
val_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisdat

#test-----
test_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisda

testa_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testb_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testc_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testd_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
```

```
teste_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testf_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testg_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testh_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testi_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testk_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testl_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testm_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testn_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testo_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testp_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testq_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testr_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
tests_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testt_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testu_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testv_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testw_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testx_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
testy_data_raw = pd.read_csv('/content/drive/My Drive/Computer Vision Project/ComVisd
```

Enter your authorization code:

— 1 —

Mounted at /content/drive

## Check shape of data:

```
print('Training Dataframe Shape:', train_data_raw.shape)
print('Validation Dataframe Shape:', val_data_raw.shape)
#test-----
print('Whole Testing Dataframe Shape:', test_data_raw.shape)
```

Training Dataframe Shape: (27455, 785)  
Validation Dataframe Shape: (7172, 785)  
Whole Testing Dataframe Shape: (240, 785)

```
#path for temporary storage of the model parameters  
path = "./best_parameter.pt"  
md_path = "/content/drive/My Drive/Computer Vision Project/model_bn_w15.pt"
```

```
#add image of signlanguage  
print("Sign Language Alphabet")  
Timage('/content/drive/My Drive/Computer Vision Project/amer sign.png')
```



## Sign Language Alphabet



## Preparing the CSV dataset

```
def preparing(raw):
    # see how the dataset looks like
    # print("Dataset below:")
    # print(raw)

    labels = raw['label']
    raw.drop('label', axis=1, inplace=True)

    data = raw.values
    labels = labels.values

    reshaped = []
    for i in data:
        reshaped.append(i.reshape(1,28,28))
    data = np.array(reshaped)

    test_x = torch.FloatTensor(data)
    test_y = torch.LongTensor(labels.tolist())

    return (test_x, test_y, data)
```

preparing the different data files

```
train_x, train_y, train_data = preparing(train_data_raw)
val_x, val_y, val_data = preparing(val_data_raw)

#test datasets
test_x, test_y, test_data = preparing(test_data_raw)
testa_x, testa_y, testa_data = preparing(testa_data_raw)
testb_x, testb_y, testb_data = preparing(testb_data_raw)
testc_x, testc_y, testc_data = preparing(testc_data_raw)
testd_x, testd_y, testd_data = preparing(testd_data_raw)
teste_x, teste_y, teste_data = preparing(teste_data_raw)
testf_x, testf_y, testf_data = preparing(testf_data_raw)
testg_x, testg_y, testg_data = preparing(testg_data_raw)
testh_x, testh_y, testh_data = preparing(testh_data_raw)
testi_x, testi_y, testi_data = preparing(testi_data_raw)
testk_x, testk_y, testk_data = preparing(testk_data_raw)
testl_x, testl_y, testl_data = preparing(testl_data_raw)
testm_x, testm_y, testm_data = preparing(testm_data_raw)
testn_x, testn_y, testn_data = preparing(testn_data_raw)
testo_x, testo_y, testo_data = preparing(testo_data_raw)
testp_x, testp_y, testp_data = preparing(testp_data_raw)
testq_x, testq_y, testq_data = preparing(testq_data_raw)
testr_x, testr_y, testr_data = preparing(testr_data_raw)
tests_x, tests_y, tests_data = preparing(tests_data_raw)
testt_x, testt_y, testt_data = preparing(testt_data_raw)
testu_x, testu_y, testu_data = preparing(testu_data_raw)
testv_x, testv_y, testv_data = preparing(testv_data_raw)
testw_x, testw_y, testw_data = preparing(testw_data_raw)
testx_x, testx_y, testx_data = preparing(testx_data_raw)
testy_x, testy_y, testy_data = preparing(testy_data_raw)
```

Show example images with results

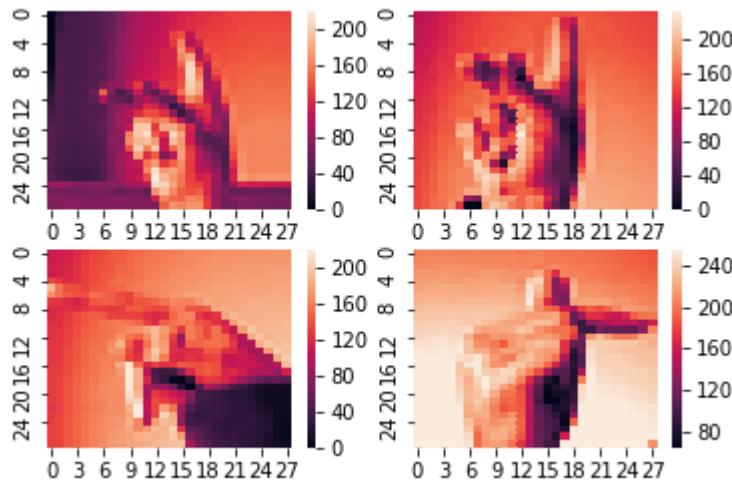
```
pixels = train_data[11].reshape(28, 28)
plt.subplot(221)
sns.heatmap(data=pixels)
print(train_y[11])
```

```
pixels = train_data[45].reshape(28, 28)
plt.subplot(222)
sns.heatmap(data=pixels)
print(train_y[136])
```

```
pixels = train_data[41].reshape(28, 28)
plt.subplot(223)
sns.heatmap(data=pixels)
print(train_y[152])
```

```
pixels = train_data[154].reshape(28, 28)
plt.subplot(224)
sns.heatmap(data=pixels)
print(train_y[154])
```

tensor(10)  
tensor(6)  
tensor(19)  
tensor(19)



```
pixels = test_data[1].reshape(28, 28)
plt.subplot(221)
sns.heatmap(data=pixels)
print(test_y[1])
```

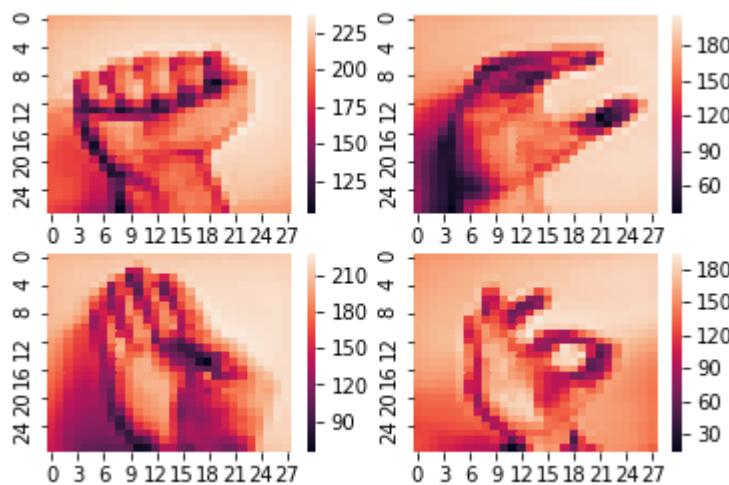
```
pixels = test_data[20].reshape(28, 28)
plt.subplot(222)
sns.heatmap(data=pixels)
print(test_y[20])
```

```
pixels = test_data[11].reshape(28, 28)
plt.subplot(223)
sns.heatmap(data=pixels)
print(test_y[11])
```

```
pixels = test_data[50].reshape(28, 28)
plt.subplot(224)
sns.heatmap(data=pixels)
print(test_y[50])
```

tensor(1)

```
tensor(0)
tensor(2)
tensor(1)
tensor(5)
```



```
class Network(nn.Module):

    def __init__(self):
        super(Network, self).__init__()
        self.conv1 = nn.Conv2d(1, 32, kernel_size=3, stride=1, padding=0)
        # self.conv1 = nn.Conv2d(1, 32, kernel_size=5, stride=1, padding=0)
        self.pool1 = nn.MaxPool2d(2, 2)

        self.conv2 = nn.Conv2d(32, 64, kernel_size=3, stride=1, padding=0)
        # self.conv2 = nn.Conv2d(32, 64, kernel_size=5, stride=1, padding=0)
        self.pool2 = nn.MaxPool2d(2, 2)

    # With Batchnormalization here-----

        self.fc1 = nn.Sequential(
            nn.Linear(5 * 5 * 64, 625, bias=True),
            # nn.Linear(4 * 4 * 64, 625, bias=True),
            nn.BatchNorm1d(625),
            nn.ReLU(),
            nn.Linear(625, 26, bias=True)
        )

    def forward(self, x):
        x = self.pool1(F.relu(self.conv1(x)))

        x = self.pool2(F.relu(self.conv2(x)))

        x = x.view(x.size(0), -1) # Flatten them for FC

        # x = F.relu(self.fc1(x))
```

```
# x = self.fc2(x)

x = self.fc1(x)

return x
# return self.softmax(x)

def test(self, predictions, labels):

    self.eval()
    correct = 0
    for p, l in zip(predictions, labels):
        print("Prediction = {}, Label = {}".format(p, l))
        if p == l:
            correct += 1

    acc = correct / len(predictions)
    print("Correct predictions: %5d / %5d (%5f)" % (correct, len(predictions), acc))

device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")

model = Network().to(device)

optimizer = optim.SGD(model.parameters(), 0.001, momentum=0.9)
loss_func = nn.CrossEntropyLoss()

time0 = time()

#-----
p = 5 #window size
j = 0
valid_loss_best = 20
epoch_count = 0
#array for plotting the loss
train_loss_log = []
val_log = []

#validation set to cuda
val_x = Variable(val_x).to(device)
val_y = Variable(val_y).to(device)

#early stopping
while j < p:
    #for number of epochs
    # for e in range(20):
    epoch_count += 1
    for i in range(0, train_x.shape[0], 100):
```

```
x_mini = train_x[i:i + 100]
y_mini = train_y[i:i + 100]

optimizer.zero_grad()

x_mini = Variable(x_mini).to(device)
y_mini = Variable(y_mini).to(device)

model_out = model(x_mini)

loss = loss_func(model_out, y_mini)
loss.backward()
optimizer.step()

if i % 1000 == 0:

    train_loss_log.append(loss.item())

    model_out = model(val_x)

    val_loss = loss_func(model_out, val_y)

    val_log.append(val_loss.item())

# early stopping -----
print('Epoch: {} - Training Loss: {:.6f}'.format(epoch_count, loss.item()))
print('Epoch: {} - Validation Loss: {:.6f}'.format(epoch_count, val_loss.item()))

# for number of epoch -----
# print('Epoch: {} - Training Loss: {:.6f}'.format(e + 1, loss.item()))
# print('Epoch: {} - Validation Loss: {:.6f}'.format(e + 1, val_loss.item()))

#early stopping-----

if val_loss < valid_loss_best:
    j = 0

    # Save model Parameters for best validation epoch
    torch.save(model.state_dict(), path)

    print("model saved")
    valid_loss_best = val_loss
    training_loss_best = loss
    epoch_count_best = epoch_count
else:
    j += 1

torch.save(model.state_dict(), rs_path)
```

```
print("Best Epoch: ", epoch_count_best)
print("Best Training loss", valid_loss_best.item())
print("\nTraining and Validation Time (in minutes) =", (time()-time0)/60)
```



```
Epoch: 1 - Training Loss: 0.526395
Epoch: 1 - Validation Loss: 0.773643
model saved
Epoch: 2 - Training Loss: 0.188343
Epoch: 2 - Validation Loss: 0.477701
model saved
Epoch: 3 - Training Loss: 0.098011
Epoch: 3 - Validation Loss: 0.378601
model saved
Epoch: 4 - Training Loss: 0.061992
Epoch: 4 - Validation Loss: 0.332673
model saved
Epoch: 5 - Training Loss: 0.044088
Epoch: 5 - Validation Loss: 0.306945
model saved
Epoch: 6 - Training Loss: 0.033824
Epoch: 6 - Validation Loss: 0.290236
model saved
Epoch: 7 - Training Loss: 0.027010
Epoch: 7 - Validation Loss: 0.278763
model saved
Epoch: 8 - Training Loss: 0.022350
Epoch: 8 - Validation Loss: 0.270381
model saved
Epoch: 9 - Training Loss: 0.018990
Epoch: 9 - Validation Loss: 0.264179
model saved
Epoch: 10 - Training Loss: 0.016403
Epoch: 10 - Validation Loss: 0.258945
model saved
Epoch: 11 - Training Loss: 0.014443
Epoch: 11 - Validation Loss: 0.254684
model saved
Epoch: 12 - Training Loss: 0.012843
Epoch: 12 - Validation Loss: 0.251407
model saved
Epoch: 13 - Training Loss: 0.011523
Epoch: 13 - Validation Loss: 0.248458
model saved
Epoch: 14 - Training Loss: 0.010455
Epoch: 14 - Validation Loss: 0.246042
model saved
Epoch: 15 - Training Loss: 0.009562
Epoch: 15 - Validation Loss: 0.243993
model saved
Epoch: 16 - Training Loss: 0.008799
Epoch: 16 - Validation Loss: 0.242245
model saved
Epoch: 17 - Training Loss: 0.008152
Epoch: 17 - Validation Loss: 0.240708
model saved
Epoch: 18 - Training Loss: 0.007579
Epoch: 18 - Validation Loss: 0.239366
model saved
Epoch: 19 - Training Loss: 0.007095
Epoch: 19 - Validation Loss: 0.238189
model saved
```

```
Epoch: 20 - Training Loss: 0.006652
Epoch: 20 - Validation Loss: 0.237026
model saved
Epoch: 21 - Training Loss: 0.006263
Epoch: 21 - Validation Loss: 0.236077
model saved
Epoch: 22 - Training Loss: 0.005911
Epoch: 22 - Validation Loss: 0.235161
model saved
Epoch: 23 - Training Loss: 0.005596
Epoch: 23 - Validation Loss: 0.234353
model saved
Epoch: 24 - Training Loss: 0.005315
Epoch: 24 - Validation Loss: 0.233590
model saved
Epoch: 25 - Training Loss: 0.005049
Epoch: 25 - Validation Loss: 0.232936
model saved
Epoch: 26 - Training Loss: 0.004815
Epoch: 26 - Validation Loss: 0.232246
model saved
Epoch: 27 - Training Loss: 0.004600
Epoch: 27 - Validation Loss: 0.231713
model saved
Epoch: 28 - Training Loss: 0.004396
Epoch: 28 - Validation Loss: 0.231246
model saved
Epoch: 29 - Training Loss: 0.004214
Epoch: 29 - Validation Loss: 0.230787
model saved
Epoch: 30 - Training Loss: 0.004045
Epoch: 30 - Validation Loss: 0.230413
model saved
Epoch: 31 - Training Loss: 0.003886
Epoch: 31 - Validation Loss: 0.230042
model saved
Epoch: 32 - Training Loss: 0.003740
Epoch: 32 - Validation Loss: 0.229708
model saved
Epoch: 33 - Training Loss: 0.003604
Epoch: 33 - Validation Loss: 0.229427
model saved
Epoch: 34 - Training Loss: 0.003475
Epoch: 34 - Validation Loss: 0.229134
model saved
Epoch: 35 - Training Loss: 0.003356
Epoch: 35 - Validation Loss: 0.228870
model saved
Epoch: 36 - Training Loss: 0.003244
Epoch: 36 - Validation Loss: 0.228622
model saved
Epoch: 37 - Training Loss: 0.003141
Epoch: 37 - Validation Loss: 0.228384
model saved
Epoch: 38 - Training Loss: 0.003042
Epoch: 38 - Validation Loss: 0.228132
model saved
Epoch: 39 - Training Loss: 0.002950
```

```
Epoch: 39 - Validation Loss: 0.227946
model saved
Epoch: 40 - Training Loss: 0.002863
Epoch: 40 - Validation Loss: 0.227742
model saved
Epoch: 41 - Training Loss: 0.002779
Epoch: 41 - Validation Loss: 0.227550
model saved
Epoch: 42 - Training Loss: 0.002701
Epoch: 42 - Validation Loss: 0.227381
model saved
Epoch: 43 - Training Loss: 0.002628
Epoch: 43 - Validation Loss: 0.227240
model saved
Epoch: 44 - Training Loss: 0.002556
Epoch: 44 - Validation Loss: 0.227096
model saved
Epoch: 45 - Training Loss: 0.002490
Epoch: 45 - Validation Loss: 0.226977
model saved
Epoch: 46 - Training Loss: 0.002427
Epoch: 46 - Validation Loss: 0.226855
model saved
Epoch: 47 - Training Loss: 0.002367
Epoch: 47 - Validation Loss: 0.226752
model saved
Epoch: 48 - Training Loss: 0.002310
Epoch: 48 - Validation Loss: 0.226627
model saved
Epoch: 49 - Training Loss: 0.002255
Epoch: 49 - Validation Loss: 0.226540
model saved
Epoch: 50 - Training Loss: 0.002203
Epoch: 50 - Validation Loss: 0.226473
model saved
Epoch: 51 - Training Loss: 0.002153
Epoch: 51 - Validation Loss: 0.226422
model saved
Epoch: 52 - Training Loss: 0.002104
Epoch: 52 - Validation Loss: 0.226335
model saved
Epoch: 53 - Training Loss: 0.002058
Epoch: 53 - Validation Loss: 0.226254
model saved
Epoch: 54 - Training Loss: 0.002014
Epoch: 54 - Validation Loss: 0.226214
model saved
Epoch: 55 - Training Loss: 0.001972
Epoch: 55 - Validation Loss: 0.226166
model saved
Epoch: 56 - Training Loss: 0.001931
Epoch: 56 - Validation Loss: 0.226124
model saved
Epoch: 57 - Training Loss: 0.001893
Epoch: 57 - Validation Loss: 0.226077
model saved
Epoch: 58 - Training Loss: 0.001856
Epoch: 58 - Validation Loss: 0.226022
```

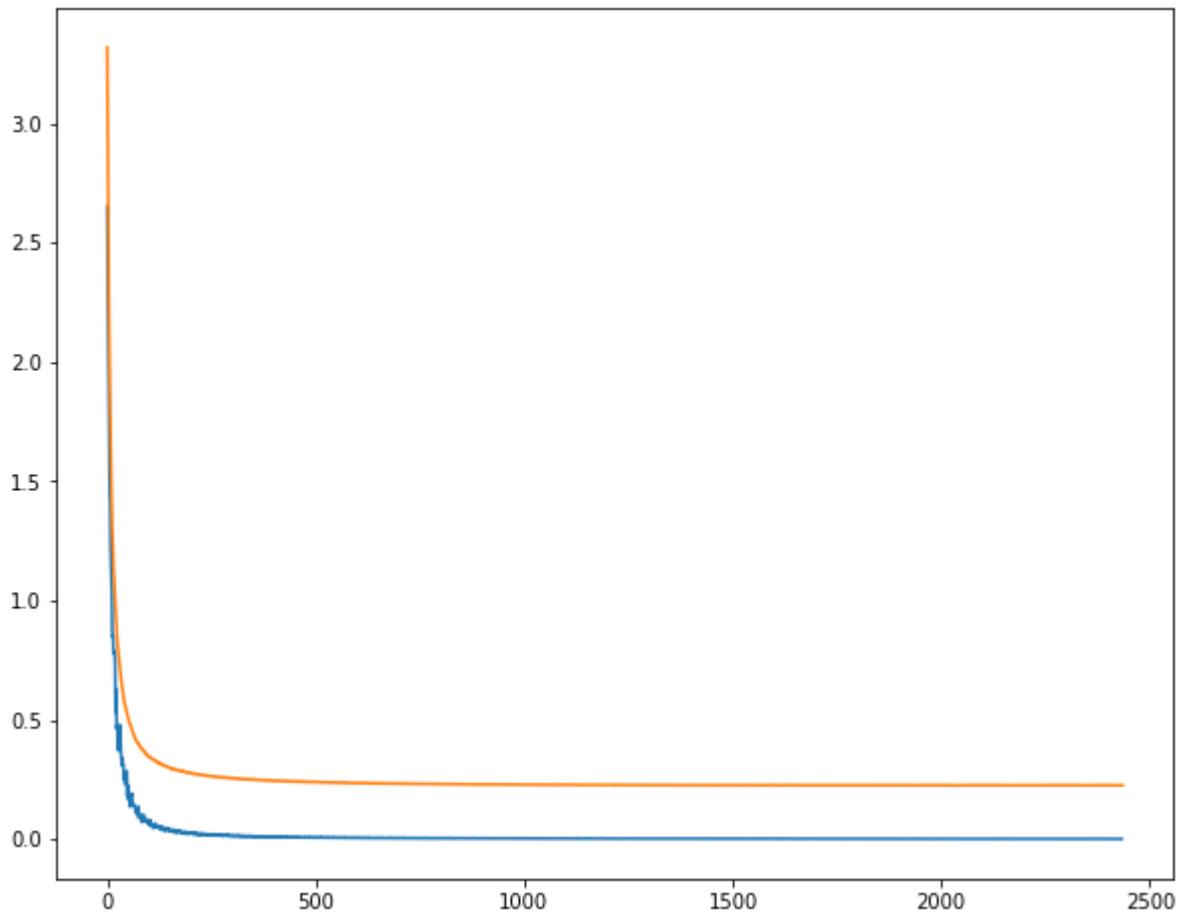
```
Epoch: 50 - validation loss: 0.225955
model saved
Epoch: 59 - Training Loss: 0.001820
Epoch: 59 - Validation Loss: 0.225976
model saved
Epoch: 60 - Training Loss: 0.001785
Epoch: 60 - Validation Loss: 0.225958
model saved
Epoch: 61 - Training Loss: 0.001752
Epoch: 61 - Validation Loss: 0.225951
model saved
Epoch: 62 - Training Loss: 0.001719
Epoch: 62 - Validation Loss: 0.225931
model saved
Epoch: 63 - Training Loss: 0.001688
Epoch: 63 - Validation Loss: 0.225927
model saved
Epoch: 64 - Training Loss: 0.001657
Epoch: 64 - Validation Loss: 0.225895
model saved
Epoch: 65 - Training Loss: 0.001628
Epoch: 65 - Validation Loss: 0.225882
model saved
Epoch: 66 - Training Loss: 0.001599
Epoch: 66 - Validation Loss: 0.225840
model saved
Epoch: 67 - Training Loss: 0.001571
Epoch: 67 - Validation Loss: 0.225831
model saved
Epoch: 68 - Training Loss: 0.001545
Epoch: 68 - Validation Loss: 0.225813
model saved
Epoch: 69 - Training Loss: 0.001519
Epoch: 69 - Validation Loss: 0.225799
model saved
Epoch: 70 - Training Loss: 0.001495
Epoch: 70 - Validation Loss: 0.225800
Epoch: 71 - Training Loss: 0.001471
Epoch: 71 - Validation Loss: 0.225771
model saved
Epoch: 72 - Training Loss: 0.001447
Epoch: 72 - Validation Loss: 0.225774
Epoch: 73 - Training Loss: 0.001425
Epoch: 73 - Validation Loss: 0.225753
model saved
Epoch: 74 - Training Loss: 0.001403
Epoch: 74 - Validation Loss: 0.225761
Epoch: 75 - Training Loss: 0.001382
Epoch: 75 - Validation Loss: 0.225725
model saved
Epoch: 76 - Training Loss: 0.001361
Epoch: 76 - Validation Loss: 0.225722
model saved
Epoch: 77 - Training Loss: 0.001341
Epoch: 77 - Validation Loss: 0.225708
model saved
Epoch: 78 - Training Loss: 0.001321
Epoch: 78 - Validation Loss: 0.225724
```

```
Epoch: 79 - Training Loss: 0.001302
Epoch: 79 - Validation Loss: 0.225715
Epoch: 80 - Training Loss: 0.001283
Epoch: 80 - Validation Loss: 0.225704
model saved
Epoch: 81 - Training Loss: 0.001265
Epoch: 81 - Validation Loss: 0.225711
Epoch: 82 - Training Loss: 0.001248
Epoch: 82 - Validation Loss: 0.225698
model saved
Epoch: 83 - Training Loss: 0.001230
Epoch: 83 - Validation Loss: 0.225710
Epoch: 84 - Training Loss: 0.001214
Epoch: 84 - Validation Loss: 0.225700
Epoch: 85 - Training Loss: 0.001197
Epoch: 85 - Validation Loss: 0.225701
Epoch: 86 - Training Loss: 0.001181
Epoch: 86 - Validation Loss: 0.225703
Epoch: 87 - Training Loss: 0.001165
Epoch: 87 - Validation Loss: 0.225715
Best Epoch: 82
Best Training loss 0.22569774091243744
```

Training and Validation Time (in minutes) = 2.403387415409088

```
plt.figure(figsize=(10,8))
plt.plot(train_loss_log[2:])
plt.plot(val_log)
plt.show()
```





testing on validation set

```
model.load_state_dict(torch.load(path))
model.eval()

#save a copy of best validation error at mydrive
torch.save(model.state_dict(), md_path)

#check accuracy on the validation set:
val_x = Variable(val_x).to(device)

predictions = model(val_x)
model.test(torch.max(predictions.data, 1)[1], val_y)
```



```
Prediction = 6, Label = 6
Prediction = 5, Label = 5
Prediction = 10, Label = 10
Prediction = 0, Label = 0
Prediction = 3, Label = 3
Prediction = 21, Label = 21
Prediction = 10, Label = 10
Prediction = 14, Label = 14
Prediction = 3, Label = 3
Prediction = 7, Label = 7
Prediction = 8, Label = 8
Prediction = 8, Label = 8
Prediction = 21, Label = 21
Prediction = 12, Label = 12
Prediction = 7, Label = 7
Prediction = 4, Label = 4
Prediction = 22, Label = 22
Prediction = 0, Label = 0
Prediction = 7, Label = 7
Prediction = 7, Label = 7
Prediction = 2, Label = 2
Prediction = 0, Label = 0
Prediction = 21, Label = 21
Prediction = 4, Label = 4
Prediction = 10, Label = 10
Prediction = 15, Label = 15
Prediction = 2, Label = 2
Prediction = 15, Label = 15
Prediction = 7, Label = 7
Prediction = 1, Label = 1
Prediction = 7, Label = 7
Prediction = 8, Label = 8
Prediction = 13, Label = 13
Prediction = 19, Label = 19
Prediction = 3, Label = 3
Prediction = 21, Label = 21
Prediction = 0, Label = 13
Prediction = 3, Label = 3
Prediction = 18, Label = 18
Prediction = 14, Label = 14
Prediction = 15, Label = 15
Prediction = 23, Label = 23
Prediction = 8, Label = 8
Prediction = 15, Label = 15
Prediction = 14, Label = 14
Prediction = 5, Label = 5
Prediction = 17, Label = 17
Prediction = 4, Label = 4
Prediction = 6, Label = 19
Prediction = 13, Label = 13
Prediction = 17, Label = 20
Prediction = 22, Label = 22
Prediction = 3, Label = 20
Prediction = 5, Label = 5
Prediction = 16, Label = 16
Prediction = 16, Label = 16
Prediction = 21, Label = 21
.
.
```

```
Prediction = 4, Label = 4
Prediction = 6, Label = 7
Prediction = 22, Label = 22
Prediction = 10, Label = 10
Prediction = 13, Label = 13
Prediction = 11, Label = 11
Prediction = 22, Label = 22
Prediction = 2, Label = 2
Prediction = 10, Label = 10
Prediction = 1, Label = 1
Prediction = 4, Label = 4
Prediction = 18, Label = 18
Prediction = 4, Label = 4
Prediction = 20, Label = 20
Prediction = 6, Label = 6
Prediction = 15, Label = 15
Prediction = 4, Label = 4
Prediction = 3, Label = 3
Prediction = 20, Label = 20
Prediction = 15, Label = 15
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Correct predictions: 6703 / 7172 (0.934607)
```

Load the model received trough the early stopping methode

```
# model.load_state_dict(torch.load(path))
# model.eval()

predictions = model(Variable(test_x).to(device))
model.test(torch.max(predictions.data, 1)[1], test_y)
```



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Prediction = 15, Label = 5  
Prediction = 15, Label = 5  
Prediction = 15, Label = 5



```
Prediction = 10, Label = 12
Prediction = 7, Label = 12
Prediction = 11, Label = 12
Prediction = 15, Label = 12
Prediction = 11, Label = 12
Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 7, Label = 13
Prediction = 6, Label = 13
Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 16, Label = 13
Prediction = 11, Label = 13
Prediction = 13, Label = 14
Prediction = 7, Label = 14
Prediction = 10, Label = 14
Prediction = 24, Label = 14
Prediction = 7, Label = 14
Prediction = 13, Label = 14
Prediction = 7, Label = 14
Prediction = 7, Label = 14
Prediction = 6, Label = 14
Prediction = 13, Label = 14
Prediction = 7, Label = 15
Prediction = 15, Label = 15
Prediction = 15, Label = 15
Prediction = 11, Label = 15
Prediction = 7, Label = 15
Prediction = 11, Label = 15
Prediction = 7, Label = 15
Prediction = 7, Label = 15
Prediction = 15, Label = 15
Prediction = 7, Label = 15
Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 18, Label = 16
Prediction = 7, Label = 16
Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 7, Label = 16
Prediction = 7, Label = 16
Prediction = 23, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 15, Label = 17
Prediction = 11, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 23, Label = 17
Prediction = 7, Label = 18
Prediction = 7, Label = 18
Prediction = 13, Label = 18
```

```
Prediction = 10, Label = 10
Prediction = 13, Label = 18
Prediction = 7, Label = 18
Prediction = 13, Label = 18
Prediction = 7, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 7, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 19, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 7, Label = 19
Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 15, Label = 20
Prediction = 15, Label = 20
Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 15, Label = 20
Prediction = 15, Label = 20
Prediction = 11, Label = 20
Prediction = 24, Label = 21
Prediction = 11, Label = 21
Prediction = 24, Label = 21
Prediction = 24, Label = 21
Prediction = 11, Label = 21
Prediction = 15, Label = 21
Prediction = 24, Label = 21
Prediction = 24, Label = 21
Prediction = 11, Label = 22
Prediction = 24, Label = 22
Prediction = 11, Label = 22
Prediction = 11, Label = 22
Prediction = 24, Label = 22
Prediction = 24, Label = 22
Prediction = 21, Label = 22
Prediction = 6, Label = 23
Prediction = 23, Label = 23
Prediction = 6, Label = 23
Prediction = 19, Label = 23
Prediction = 6, Label = 23
Prediction = 6, Label = 23
Prediction = 6, Label = 23
Prediction = 15, Label = 23
Prediction = 15, Label = 23
Prediction = 19, Label = 23
```

```
Prediction = 7, Label = 24
Prediction = 7, Label = 24
Prediction = 7, Label = 24
Prediction = 11, Label = 24
Prediction = 24, Label = 24
Prediction = 11, Label = 24
Prediction = 24, Label = 24
Prediction = 24, Label = 24
Prediction = 24, Label = 24
Prediction = 11, Label = 24
Correct predictions:    29 /   240 (0.120833)
```

53/216 = 24.537037%

33/240 = 13.75%

```
predictions = model(Variable(testa_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testa_y)
```

```
↳ Prediction = 6, Label = 0
Prediction = 13, Label = 0
Prediction = 13, Label = 0
Prediction = 6, Label = 0
Prediction = 13, Label = 0
Prediction = 11, Label = 0
Prediction = 11, Label = 0
Prediction = 11, Label = 0
Prediction = 5, Label = 0
Prediction = 15, Label = 0
Correct predictions:    0 /   10 (0.000000)
```

```
predictions = model(Variable(testb_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testb_y)
```

```
↳ Prediction = 5, Label = 1
Prediction = 5, Label = 1
Prediction = 22, Label = 1
Prediction = 22, Label = 1
Prediction = 5, Label = 1
Prediction = 15, Label = 1
Prediction = 5, Label = 1
Prediction = 5, Label = 1
Prediction = 22, Label = 1
Prediction = 1, Label = 1
Correct predictions:    1 /   10 (0.100000)
```

```
predictions = model(Variable(testc_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testc_y)
```

```
↳
```

```
Prediction = 14, Label = 2
Prediction = 13, Label = 2
Prediction = 24, Label = 2
Prediction = 6, Label = 2
Prediction = 13, Label = 2
Prediction = 13, Label = 2
Prediction = 14, Label = 2
Prediction = 14, Label = 2
Prediction = 13, Label = 2
Prediction = 13, Label = 2
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testd_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testd_y)
```

```
↳ Prediction = 11, Label = 3
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(teste_x).to(device))
model.test(torch.max(predictions.data, 1)[1], teste_y)
```

```
↳ Prediction = 5, Label = 4
Prediction = 6, Label = 4
Prediction = 5, Label = 4
Prediction = 11, Label = 4
Prediction = 6, Label = 4
Prediction = 6, Label = 4
Prediction = 5, Label = 4
Prediction = 6, Label = 4
Prediction = 5, Label = 4
Prediction = 5, Label = 4
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testf_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testf_y)
```

```
↳
```

```
Prediction = 15, Label = 5
Prediction = 15, Label = 5
Prediction = 15, Label = 5
Prediction = 13, Label = 5
Prediction = 15, Label = 5
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testg_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testg_y)
```

```
↳ Prediction = 7, Label = 6
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testh_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testh_y)
```

```
↳ Prediction = 7, Label = 7
Prediction = 15, Label = 7
Prediction = 7, Label = 7
Correct predictions:      9 /      10 (0.900000)
```

```
predictions = model(Variable(testi_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testi_y)
```

```
↳
```

```
Prediction = 24, Label = 8
Prediction = 11, Label = 8
Prediction = 24, Label = 8
Prediction = 11, Label = 8
Prediction = 24, Label = 8
Prediction = 24, Label = 8
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testk_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testk_y)
```

```
↳ Prediction = 15, Label = 10
Prediction = 19, Label = 10
Prediction = 15, Label = 10
Prediction = 7, Label = 10
Prediction = 11, Label = 10
Prediction = 3, Label = 10
Prediction = 15, Label = 10
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testl_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testl_y)
```

```
↳ Prediction = 11, Label = 11
Correct predictions:      10 /      10 (1.000000)
```

```
predictions = model(Variable(testm_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testm_y)
```

```
↳
```

```
Prediction = 11, Label = 12
Prediction = 11, Label = 12
Prediction = 7, Label = 12
Prediction = 7, Label = 12
Prediction = 16, Label = 12
Prediction = 10, Label = 12
Prediction = 7, Label = 12
Prediction = 11, Label = 12
Prediction = 15, Label = 12
Prediction = 11, Label = 12
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testn_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testn_y)
```

```
↳ Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 7, Label = 13
Prediction = 6, Label = 13
Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 7, Label = 13
Prediction = 11, Label = 13
Prediction = 16, Label = 13
Prediction = 11, Label = 13
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testo_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testo_y)
```

```
↳ Prediction = 13, Label = 14
Prediction = 7, Label = 14
Prediction = 10, Label = 14
Prediction = 24, Label = 14
Prediction = 7, Label = 14
Prediction = 13, Label = 14
Prediction = 7, Label = 14
Prediction = 7, Label = 14
Prediction = 6, Label = 14
Prediction = 13, Label = 14
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testp_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testp_y)
```

```
↳
```

```
Prediction = 7, Label = 15
Prediction = 15, Label = 15
Prediction = 15, Label = 15
Prediction = 11, Label = 15
Prediction = 7, Label = 15
Prediction = 11, Label = 15
Prediction = 7, Label = 15
Prediction = 7, Label = 15
Prediction = 15, Label = 15
Prediction = 7, Label = 15
Correct predictions:      3 /      10 (0.300000)
```

```
predictions = model(Variable(testq_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testq_y)
```

```
↳ Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 18, Label = 16
Prediction = 7, Label = 16
Prediction = 13, Label = 16
Prediction = 7, Label = 16
Prediction = 7, Label = 16
Prediction = 7, Label = 16
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testr_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testr_y)
```

```
↳ Prediction = 23, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 15, Label = 17
Prediction = 11, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 11, Label = 17
Prediction = 23, Label = 17
Prediction = 23, Label = 17
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(tests_x).to(device))
model.test(torch.max(predictions.data, 1)[1], tests_y)
```

```
↳
```

```
Prediction = 7, Label = 18
Prediction = 7, Label = 18
Prediction = 13, Label = 18
Prediction = 13, Label = 18
Prediction = 7, Label = 18
Prediction = 13, Label = 18
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testt_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testt_y)
```

```
↳ Prediction = 7, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 7, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 19, Label = 19
Prediction = 6, Label = 19
Prediction = 7, Label = 19
Prediction = 7, Label = 19
Correct predictions:      1 /      10 (0.100000)
```

```
predictions = model(Variable(testu_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testu_y)
```

```
↳ Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 15, Label = 20
Prediction = 15, Label = 20
Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 11, Label = 20
Prediction = 15, Label = 20
Prediction = 15, Label = 20
Prediction = 11, Label = 20
Correct predictions:      0 /      10 (0.000000)
```

```
predictions = model(Variable(testv_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testv_y)
```

```
↳
```

```
Prediction = 24, Label = 21
Prediction = 11, Label = 21
Prediction = 24, Label = 21
Prediction = 11, Label = 21
Prediction = 15, Label = 21
Prediction = 24, Label = 21
Prediction = 24, Label = 21
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testw_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testw_y)
```

```
↳ Prediction = 11, Label = 22
Prediction = 24, Label = 22
Prediction = 11, Label = 22
Prediction = 11, Label = 22
Prediction = 24, Label = 22
Prediction = 24, Label = 22
Prediction = 21, Label = 22
Correct predictions:    0 /    10 (0.000000)
```

```
predictions = model(Variable(testx_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testx_y)
```

```
↳ Prediction = 6, Label = 23
Prediction = 23, Label = 23
Prediction = 6, Label = 23
Prediction = 19, Label = 23
Prediction = 6, Label = 23
Prediction = 6, Label = 23
Prediction = 6, Label = 23
Prediction = 15, Label = 23
Prediction = 15, Label = 23
Prediction = 19, Label = 23
Correct predictions:    1 /    10 (0.100000)
```

```
predictions = model(Variable(testy_x).to(device))
model.test(torch.max(predictions.data, 1)[1], testy_y)
```

```
↳
```

```
Prediction = 7, Label = 24
Prediction = 7, Label = 24
Prediction = 7, Label = 24
Prediction = 11, Label = 24
Prediction = 24, Label = 24
Prediction = 11, Label = 24
Prediction = 24, Label = 24
Prediction = 24, Label = 24
Prediction = 24, Label = 24
Prediction = 11, Label = 24
Correct predictions:      4 /      10 (0.400000)
```

Confusion matrix to analyse

Matrix uses the labels as groundtruth (rows) and the collums are the received predictions.