```
File - EMNIST_train
```

```
1 C:\ProgramData\Anaconda3\envs\MLenv\python.exe "C:\Users\aberf\Documents\GitHub\CS-534\Final Project\
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Train-Accuracy: 82.0%
                                                                                                                                                                                                                                                                                                                      Train-Accuracy: 74.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Train-Accuracy: 78.0%
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Val-Loss: 0.5805, Val-Accuracy: 81.69999999999%,
                                                                                                                                                                                                                                                                                                                                                  4 Total No of Images in EMNIST-Letters dataset: 145600
                                                                                                                                                                                                                                                                                                                    Val-Accuracy: 75.2%,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Val-Accuracy: 84.5%,
                                                                                                                                                                                                                                           | 1248/1248 [00:42<00:00, 29.66it/s]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1248/1248 [00:29<00:00, 41.65it/s]
                                                                                                                                                                                                                                                                          15 Testing Model...
                                                                                           124800
                                                                                                                                                                                      10 Learning Rate: 0.0001, Weight Decay: 0.0001
                                                                                                            20800
                                                                                                                                                                  Batch Size: 100
                                                                                          5 No of images in Training dataset:
                                                                                                            No of images in Testing dataset:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Val-Loss: 0.4993,
                                                                                                                                                                                                                                                                                                                  Val-Loss: 0.7869,
                                                                                                                                                8 Training Parameters:
                                                      3 Loading Datasets...
                                                                                                                                                                  9 Epoch Count: 24,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33 Training Epoch...
34 100%| Training Epoch...
                                                                                                                                                                                                                        12 Training Epoch...
13 100%| Training|
                   EMNIST_train.py"
                                                                                                                                                                                                                                                                                                                  17 Epoch: 1,
18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Epoch: 3,
```

Train-Accuracy: 89.0%

Train-Accuracy: 87.0%

Train-Accuracy: 90.0%

Train-Accuracy: 91.0%

⊃age 4 of 6

Train-Accuracy: 92.0%

File - EMNIST_train	175

	000,000
:	
Model	
Testing	1,000
176	

177 100%| 100% | 1008/208 [00:04<00:00, 49.65it/s] | 178 Epoch: 24, Val-Loss: 0.302, Val-Accuracy: 90.5%, 179 | 180 | 181 Process finished with exit code 0 | 182

Train-Accuracy: 91.0%