```
C:\Users\lukez\AppData\Local\Microsoft\WindowsApps\python3.10.exe "C:/Users/lukez
/Desktop/CS4641/Untitled Folder/NeuroNetwork.py"
2022-07-19 00:24:16.396413: W tensorflow/stream_executor/platform/default/
dso_loader.cc:64] Could not load dynamic library 'cudart64_110.dll'; dlerror:
cudart64_110.dll not found
2022-07-19 00:24:16.396539: I tensorflow/stream_executor/cuda/cudart_stub.cc:29]
Ignore above cudart dlerror if you do not have a GPU set up on your machine.
No. of training examples: 7777
No. of testing examples: 1945
2022-07-19 00:24:18.911443: W tensorflow/stream_executor/platform/default/
dso_loader.cc:64] Could not load dynamic library 'nvcuda.dll'; dlerror: nvcuda.
dll not found
2022-07-19 00:24:18.911550: W tensorflow/stream_executor/cuda/cuda_driver.cc:269
] failed call to cuInit: UNKNOWN ERROR (303)
2022-07-19 00:24:18.914576: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc
:169] retrieving CUDA diagnostic information for host: DESKTOP-SKDN5SP
2022-07-19 00:24:18.914758: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc
:176] hostname: DESKTOP-SKDN5SP
2022-07-19 00:24:18.915119: 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
: AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate
compiler flags.
Epoch 1/150
accuracy: 0.6667
Epoch 2/150
: 0.7972
Epoch 3/150
: 0.8075
Epoch 4/150
: 0.8177
Epoch 5/150
: 0.8183
Epoch 6/150
: 0.8187
Epoch 7/150
: 0.8220
Epoch 8/150
: 0.8246
Epoch 9/150
: 0.8251
Epoch 10/150
: 0.8267
Epoch 11/150
: 0.8295
Epoch 12/150
```

```
File - NeuroNetwork
: 0.8246
Epoch 13/150
: 0.8264
Epoch 14/150
: 0.8286
Epoch 15/150
: 0.8287
Epoch 16/150
: 0.8274
Epoch 17/150
: 0.8299
Epoch 18/150
: 0.8291
Epoch 19/150
: 0.8296
Epoch 20/150
: 0.8313
Epoch 21/150
accuracy: 0.8326
Epoch 22/150
: 0.8341
Epoch 23/150
: 0.8290
Epoch 24/150
: 0.8300
Epoch 25/150
: 0.8307
Epoch 26/150
: 0.8290
Epoch 27/150
: 0.8344
Epoch 28/150
: 0.8301
Epoch 29/150
: 0.8334
Epoch 30/150
: 0.8312
Epoch 31/150
: 0.8308
Epoch 32/150
```

```
File - NeuroNetwork
accuracy: 0.8345
Epoch 33/150
: 0.8354
Epoch 34/150
: 0.8325
Epoch 35/150
: 0.8337
Epoch 36/150
: 0.8339
Epoch 37/150
: 0.8362
Epoch 38/150
accuracy: 0.8368
Epoch 39/150
accuracy: 0.8359
Epoch 40/150
: 0.8357
Epoch 41/150
accuracy: 0.8336
Epoch 42/150
: 0.8332
Epoch 43/150
accuracy: 0.8355
Epoch 44/150
: 0.8346
Epoch 45/150
: 0.8358
Epoch 46/150
: 0.8354
Epoch 47/150
: 0.8364
Epoch 48/150
: 0.8361
Epoch 49/150
: 0.8336
Epoch 50/150
: 0.8370
Epoch 51/150
: 0.8352
```

```
File - NeuroNetwork
Epoch 52/150
: 0.8368
Epoch 53/150
: 0.8366
Epoch 54/150
: 0.8377
Epoch 55/150
: 0.8381
Epoch 56/150
: 0.8379
Epoch 57/150
: 0.8377
Epoch 58/150
: 0.8407
Epoch 59/150
: 0.8397
Epoch 60/150
: 0.8382
Epoch 61/150
: 0.8384
Epoch 62/150
: 0.8379
Epoch 63/150
: 0.8385
Epoch 64/150
: 0.8377
Epoch 65/150
: 0.8376
Epoch 66/150
: 0.8388
Epoch 67/150
: 0.8403
Epoch 68/150
: 0.8376
Epoch 69/150
: 0.8412
Epoch 70/150
: 0.8388
Epoch 71/150
```

```
File - NeuroNetwork
: 0.8380
Epoch 72/150
: 0.8402
Epoch 73/150
: 0.8381
Epoch 74/150
: 0.8370
Epoch 75/150
: 0.8390
Epoch 76/150
: 0.8375
Epoch 77/150
: 0.8430
Epoch 78/150
: 0.8393
Epoch 79/150
: 0.8385
Epoch 80/150
: 0.8426
Epoch 81/150
: 0.8399
Epoch 82/150
: 0.8413
Epoch 83/150
: 0.8404
Epoch 84/150
: 0.8440
Epoch 85/150
: 0.8433
Epoch 86/150
: 0.8424
Epoch 87/150
: 0.8438
Epoch 88/150
: 0.8427
Epoch 89/150
: 0.8426
Epoch 90/150
: 0.8451
Epoch 91/150
```

```
File - NeuroNetwork
: 0.8425
Epoch 92/150
: 0.8409
Epoch 93/150
: 0.8430
Epoch 94/150
: 0.8442
Epoch 95/150
: 0.8422
Epoch 96/150
: 0.8444
Epoch 97/150
: 0.8434
Epoch 98/150
: 0.8422
Epoch 99/150
: 0.8457
Epoch 100/150
: 0.8429
Epoch 101/150
: 0.8416
Epoch 102/150
: 0.8433
Epoch 103/150
: 0.8411
Epoch 104/150
: 0.8431
Epoch 105/150
: 0.8453
Epoch 106/150
: 0.8449
Epoch 107/150
: 0.8431
Epoch 108/150
: 0.8430
Epoch 109/150
: 0.8436
Epoch 110/150
: 0.8431
```

```
File - NeuroNetwork
Epoch 111/150
: 0.8444
Epoch 112/150
: 0.8466
Epoch 113/150
: 0.8451
Epoch 114/150
: 0.8456
Epoch 115/150
: 0.8439
Epoch 116/150
: 0.8466
Epoch 117/150
: 0.8474
Epoch 118/150
: 0.8436
Epoch 119/150
: 0.8465
Epoch 120/150
: 0.8469
Epoch 121/150
: 0.8471
Epoch 122/150
: 0.8422
Epoch 123/150
: 0.8434
Epoch 124/150
: 0.8472
Epoch 125/150
: 0.8475
Epoch 126/150
: 0.8487
Epoch 127/150
: 0.8478
Epoch 128/150
: 0.8476
Epoch 129/150
: 0.8463
Epoch 130/150
```

```
File - NeuroNetwork
: 0.8466
Epoch 131/150
: 0.8458
Epoch 132/150
: 0.8463
Epoch 133/150
: 0.8474
Epoch 134/150
: 0.8427
Epoch 135/150
: 0.8476
Epoch 136/150
: 0.8478
Epoch 137/150
: 0.8456
Epoch 138/150
: 0.8496
Epoch 139/150
: 0.8470
Epoch 140/150
: 0.8503
Epoch 141/150
: 0.8484
Epoch 142/150
: 0.8463
Epoch 143/150
: 0.8476
Epoch 144/150
: 0.8475
Epoch 145/150
: 0.8492
Epoch 146/150
: 0.8470
Epoch 147/150
: 0.8453
Epoch 148/150
: 0.8462
Epoch 149/150
: 0.8460
Epoch 150/150
```

## File - NeuroNetwork

1 110 1100101101110111							
778/778 [===	========	========	=====] - 1s	1ms/step -	loss:	0.3387 -	accuracy
: 0.8472							
244/244 [===================================							
: 0.8483							
Accuracy: 84.83							
244/244 [===================================							
	precisior	recall	f1-score	support			
		0.50	0.07	700/			
0	0.90	0.78	0.84	3896			
1	0.81	0.91	0.86	3881			
			0.05	7777			
accuracy			0.85	7777			
macro avg	0.85	0.85	0.85	7777			
weighted avg	0.85	0.85	0.85	7777			

Process finished with exit code 0