

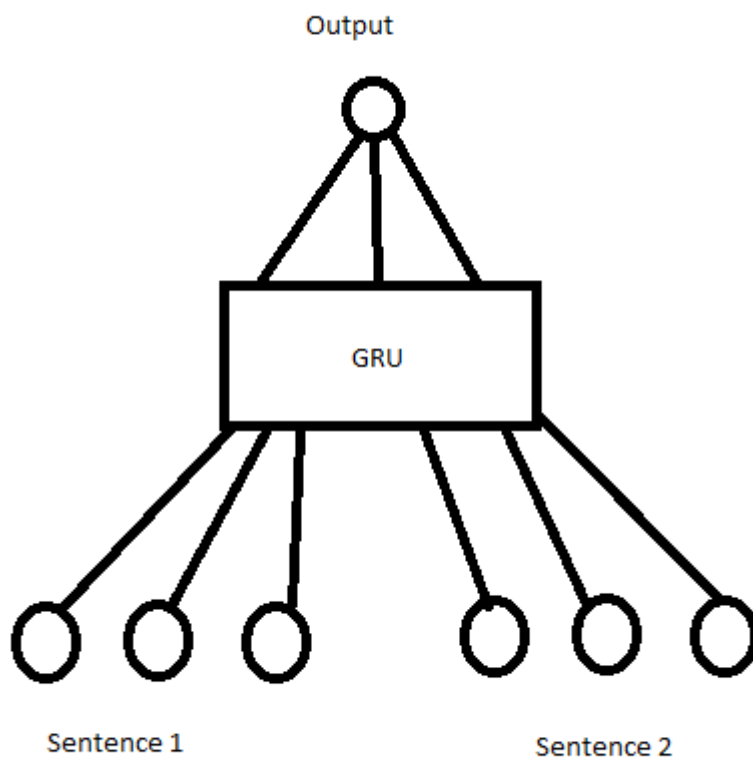
AML Lab Test 2 Report

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Simple Model Diagram



Model Details

Epochs 25

Dataset Size 5000

Loss Function Binary Cross Entropy

Optimizer Rms prop

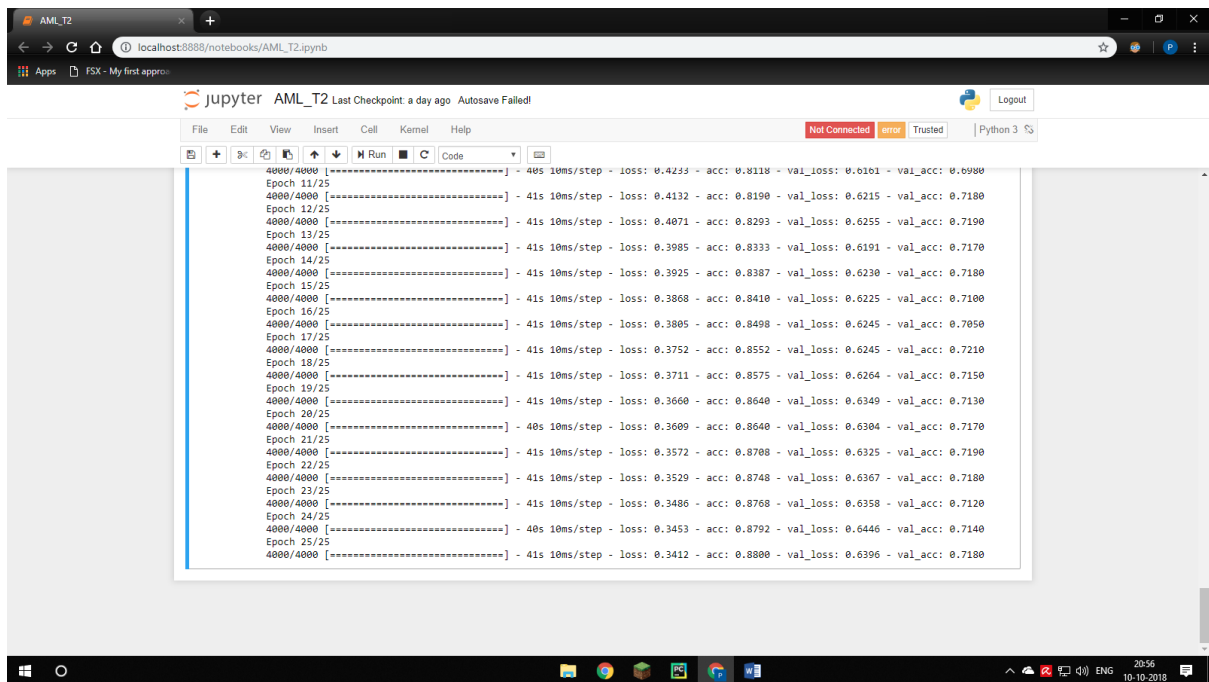
Model Performance

Training Accuracy: 88%

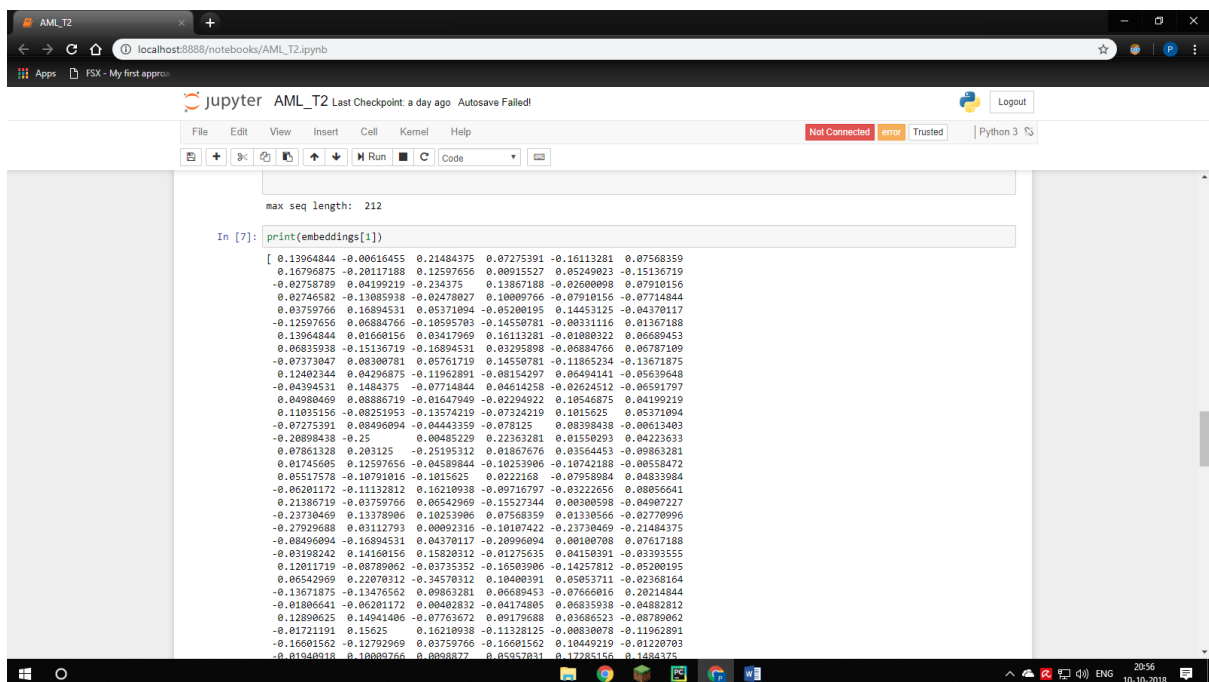
Training Loss: 0.3412

Validation Accuracy: 71.80%

Validation Loss: 0.6396



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4000/4000 [=====] - 40s 10ms/step - loss: 0.4233 - acc: 0.8118 - val_loss: 0.6161 - val_acc: 0.6980
Epoch 11/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.4132 - acc: 0.8190 - val_loss: 0.6215 - val_acc: 0.7180
Epoch 12/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.4071 - acc: 0.8293 - val_loss: 0.6255 - val_acc: 0.7190
Epoch 13/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3985 - acc: 0.8333 - val_loss: 0.6191 - val_acc: 0.7170
Epoch 14/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3925 - acc: 0.8387 - val_loss: 0.6230 - val_acc: 0.7180
Epoch 15/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3868 - acc: 0.8418 - val_loss: 0.6225 - val_acc: 0.7100
Epoch 16/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3805 - acc: 0.8498 - val_loss: 0.6245 - val_acc: 0.7050
Epoch 17/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3752 - acc: 0.8552 - val_loss: 0.6245 - val_acc: 0.7210
Epoch 18/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3711 - acc: 0.8575 - val_loss: 0.6264 - val_acc: 0.7150
Epoch 19/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3660 - acc: 0.8640 - val_loss: 0.6349 - val_acc: 0.7130
Epoch 20/25
4000/4000 [=====] - 40s 10ms/step - loss: 0.3609 - acc: 0.8640 - val_loss: 0.6304 - val_acc: 0.7170
Epoch 21/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3572 - acc: 0.8708 - val_loss: 0.6325 - val_acc: 0.7190
Epoch 22/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3529 - acc: 0.8748 - val_loss: 0.6367 - val_acc: 0.7180
Epoch 23/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3486 - acc: 0.8768 - val_loss: 0.6358 - val_acc: 0.7120
Epoch 24/25
4000/4000 [=====] - 40s 10ms/step - loss: 0.3453 - acc: 0.8792 - val_loss: 0.6446 - val_acc: 0.7140
Epoch 25/25
4000/4000 [=====] - 41s 10ms/step - loss: 0.3412 - acc: 0.8800 - val_loss: 0.6396 - val_acc: 0.7180
```



```
max seq length: 212

In [7]: print(embeddings[1])

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-0.02758789  0.04199219 -0.234375  0.13867188 -0.02600098  0.07910156
 0.02746582 -0.13085938 -0.02478027  0.10009766 -0.07910156 -0.07714844
 0.03759766  0.16894531  0.05371094 -0.05200195  0.14453125 -0.04370117
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 0.13964844  0.01660156  0.03417069  0.16113281 -0.01888322  0.06680453
 0.06835938 -0.15136719 -0.16894531  0.03295898 -0.06884766  0.06787109
-0.07373847  0.08300781  0.05761719  0.14550781 -0.11865234 -0.13671875
 0.12482344  0.04296875 -0.11962891 -0.08154297  0.06494141 -0.05639648
-0.04394531  0.1484375  0.07714844  0.04614258 -0.02624512 -0.06591797
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 0.11035156 -0.08251953 -0.13574219 -0.07324219  0.1015625  0.05371094
-0.07275391  0.08496094 -0.04443359 -0.078125  0.08398438 -0.00613403
-0.20898438 -0.25  0.00485229  0.22363281  0.01550293  0.04223633
 0.07861328  0.203125 -0.25195312  0.01867876  0.03564453 -0.09863281
 0.01745095  0.12597656 -0.04589044 -0.10253906 -0.10742188 -0.00558472
 0.05517578 -0.10791016 -0.1015625  0.0222168 -0.07958984  0.04833984
-0.06201172 -0.11132812  0.16210938 -0.09716797 -0.03222656  0.08056641
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-0.27929688  0.03112793  0.00052316 -0.10107422 -0.23730469 -0.21484375
-0.08496094 -0.16894531  0.04370117 -0.20996094  0.00100708  0.07617188
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-0.01806641 -0.06201172  0.00482832 -0.04174895  0.06835938 -0.04882812
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-0.01721191 -0.15625  0.16210938 -0.11328125 -0.00830078 -0.11962891
-0.16001562 -0.12792969  0.03759766 -0.16001562  0.10440219 -0.01220793
 0.01600118  0.10009766  0.00052316  0.05357831  0.17285156  0.1484375]
```