

Final Output of M1, M2 and M3 models

M1 – Model.py

```
| EPOCH 8: TRAINING | time: 1047.73s | loss 1.16 | documents 17495 | documents/s 16.70 |
{'precision': 8.411554456353395, 'recall': 20.272072552680715, 'f1': 7.025838719445828, 'acc': 20.272072552680715, 'loss': tensor(0.0012)}
| EPOCH 8: EVALUATING | time: 23.19s | loss 0.00 | f1 7.03 | documents 3749 | documents/s 23.18 |
C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples
  _warn_prf(average, modifier, msg_start, len(result))
|
| -----> NEW IMPROVEMENT -----> Save the model to file
|
| -----
|
| {'precision': 9.50162268074687, 'recall': 19.898639637236595, 'f1': 6.847429942730961, 'acc': 19.898639637236595, 'loss': tensor(0.0012)}
| C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples
|   _warn_prf(average, modifier, msg_start, len(result))
|
| BEST EPOCH 8: TESTING | time: 23.21s | loss 0.00 | f1 6.85 | documents 3749 | documents/s 23.20 |
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|
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M2 – model_imp_metric.py

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| EPOCH 8: TRAINING | time: 1128.17s | loss 1.24 | documents 17495 | documents/s 15.51 |
C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples
  _warn_prf(average, modifier, msg_start, len(result))
{'precision': 7.572136819500538, 'recall': 19.685249399839957, 'f1': 9.347264596098947, 'acc': 19.685249399839957, 'loss': tensor(0.0012)}
| EPOCH 8: EVALUATING | time: 25.50s | loss 0.00 | f1 9.35 | documents 3749 | documents/s 25.49 |
C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples
  _warn_prf(average, modifier, msg_start, len(result))
{'precision': 3.9595585941260336, 'recall': 19.898639637236595, 'f1': 6.604843234428699, 'acc': 19.898639637236595, 'loss': tensor(0.0013)}
|
| -----> EARLY STOPPING at epoch 8
|
| BEST EPOCH 1: TESTING | time: 20.91s | loss 0.00 | f1 6.60 | documents 3749 | documents/s 20.90 |
|
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|
| C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples
|   _warn_prf(average, modifier, msg_start, len(result))
| {'precision': 3.9595585941260336, 'recall': 19.898639637236595, 'f1': 6.604843234428699, 'acc': 19.898639637236595, 'loss': tensor(0.0013)}
| BEST EPOCH 1: TESTING | time: 21.76s | loss 0.00 | f1 6.60 | documents 3749 | documents/s 21.76 |
|
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|
| Process finished with exit code 0
|
```

M3 - model_imp_emb.py

```
| EPOCH 8: TRAINING | time: 1047.12s | loss 1.24 | documents 17495 | documents/s 16.71 |
C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in label
  _warn_prf(average, modifier, msg_start, len(result))
{'precision': 7.416483849683625, 'recall': 19.07175246732462, 'f1': 7.131917703726227, 'acc': 19.07175246732462, 'loss': tensor(0.0012)}
| EPOCH 8: EVALUATING | time: 19.76s | loss 0.00 | f1 7.13 | documents 3749 | documents/s 19.76 |
C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in label
  _warn_prf(average, modifier, msg_start, len(result))
{'precision': 22.820158638384864, 'recall': 20.058682315284077, 'f1': 7.744762055028397, 'acc': 20.058682315284077, 'loss': tensor(0.0012)}
| -----> EARLY STOPPING at epoch 8
| BEST EPOCH 1: TESTING | time: 20.04s | loss 0.00 | f1 7.74 | documents 3749 | documents/s 20.04 |
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{'precision': 22.820158638384864, 'recall': 20.058682315284077, 'f1': 7.744762055028397, 'acc': 20.058682315284077, 'loss': tensor(0.0012)}
| BEST EPOCH 1: TESTING | time: 19.90s | loss 0.00 | f1 7.74 | documents 3749 | documents/s 19.90 |
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C:\Users\Durvesh\anaconda3\lib\site-packages\sklearn\metrics\_classification.py:1245: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in label
  _warn_prf(average, modifier, msg_start, len(result))

Process finished with exit code 0
```