Precision in LSTM based classification is at an acceptable level and recall is not satisfying. On the other hand, from our previous results, Naïve Bayes classification method has a relatively high recall compared to LSTM based method. What could be possibly the reason and how can combine the two methods together in order to make a good classifier.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Precision | Recall | F Score | Accuracy | Dataset | Epoch | Hidden | Vocab | System | BPTT step |
| 35.21 | 19.98 | 25.49 | 90.69 | Test | 30 | 100 | 3000 | RNN | 4 |
| 60.23 | 27.39 | 37.65 | 95.62 | Train | 30 | 100 | 3000 | RNN | 4 |
| 43.42 | 12.92 | 19.99 | 91.71 | Test | 10 | 100 | 3000 | RNN | 7 |
| 56.03 | 11.49 | 19.07 | 95.29 | Train | 10 | 100 | 3000 | RNN | 7 |
| 50.96 | 12.32 | 19.84 | 92.06 | Test | 10 | 100 | 3000 | RNN | 4 |
| 57.16 | 9.3 | 16.02 | 95.29 | Train | 10 | 100 | 3000 | RNN | 4 |
| 0/0 |  |  |  | Test | 10 | 100 | 3000 | RNN | 13 |
| 0/0 |  |  |  | Train | 10 | 100 | 3000 | RNN | 13 |