# Report on Hate Speech Detection

Dataset used: HateXplain from huggingface

Below table with different models and metrics:

|  |  |  |
| --- | --- | --- |
| **Model:** | **Loss** | **Accuracy** |
| RNN | 5.68 | 53.4% |
| LSTM | 3.3 | 76.91% |
| BERT | 0.54 | 93.88% |

Table with different hyperparameters for BERT retraining:

|  |  |  |
| --- | --- | --- |
| **Epoch #** | **Learning rate** | **Accuracy** |
| 1 | 0.1 | 44.67% |
| 2 | 0.01 | 81.72% |
| 3 | 0.001 | 93.88% |