



## *Twitter Sentiment Analysis: Classification Vs Deep Learning Approach*



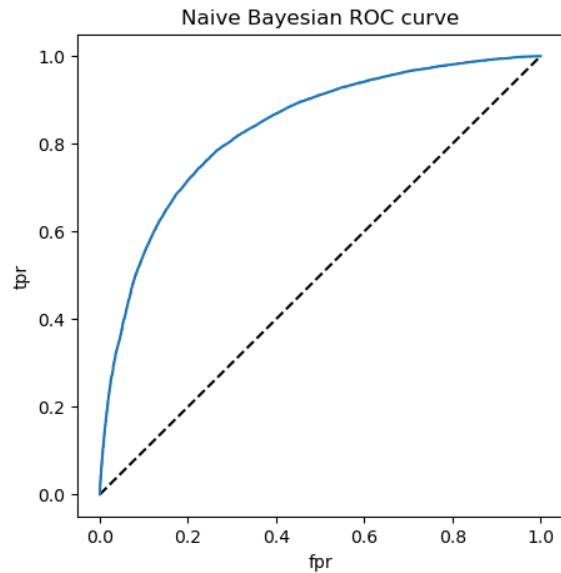
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**Naive Bayesian** model was used to build the initial classification model. Following are the results of Naive Bayesian model:

Accuracy on train data: 0.8107305555555555

Accuracy on test data: 0.755575



### **LSTM Model:**

GloVe embeddings were used to convert words to representational vectors. Following model was built:

Model: "sequential"

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Layer (type)	Output Shape	Param #
=====		
embedding (Embedding)	(None, 25, 50)	20000050
<hr/>		
bidirectional (Bidirectional)	(None, 25, 256)	183296
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bidirectional_1 (Bidirectional)	(None, 256)	394240

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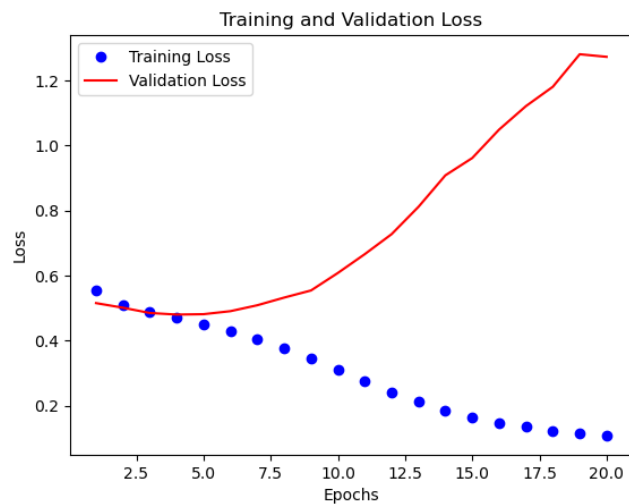
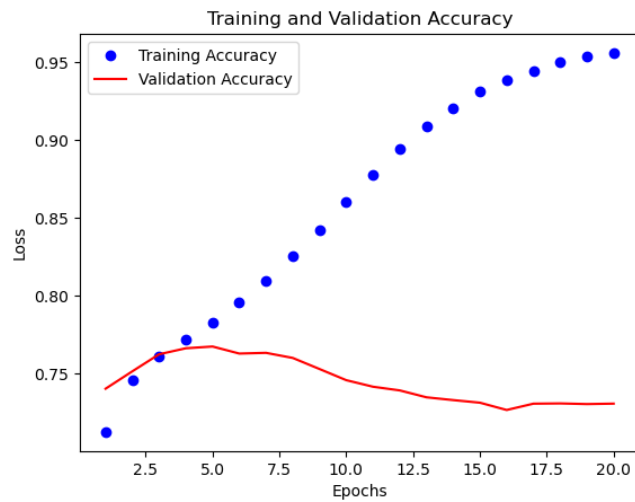
dense (Dense)	(None, 1)	257
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Total params: 20,577,843

Trainable params: 577,793

Non-trainable params: 20,000,050



The model is currently over-fitting. I will continue working to improve the model by using regularization techniques.