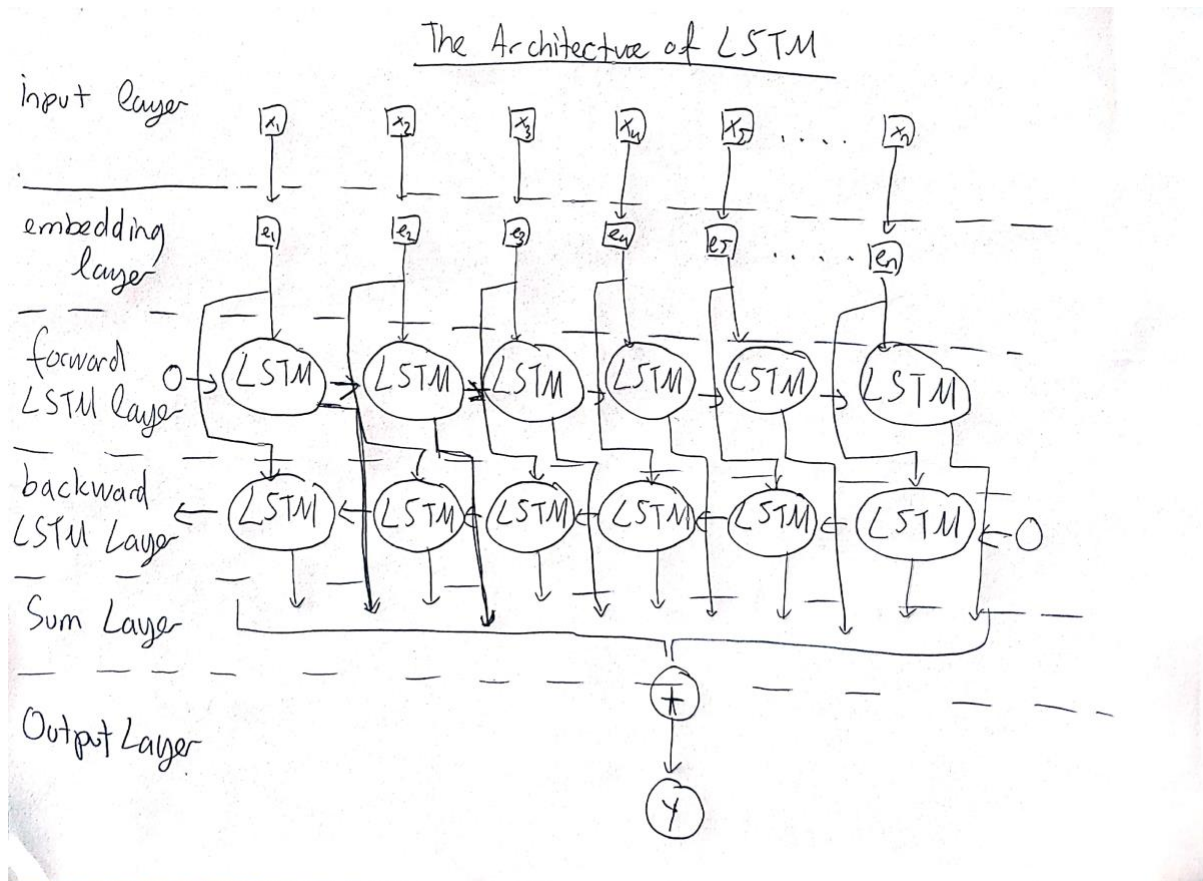


Homework5: Sentence-level Sentiment Classification

I was in between of doing either BERT or LSTM but at the end I have chosen to implement the Bidirectional LSTM.

I tried to draw the BiLSTM Architecture by myself to really understand the concept behind this model. This is my drawing:

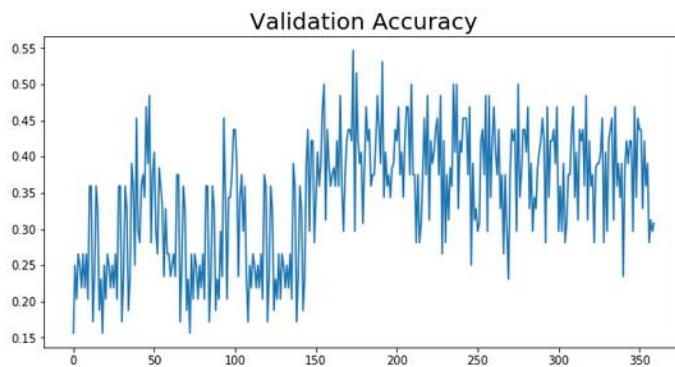
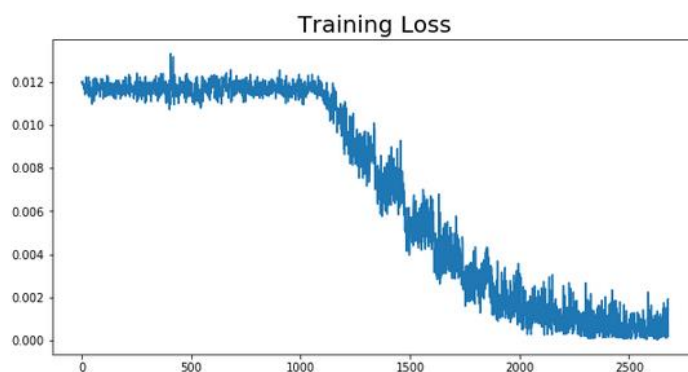
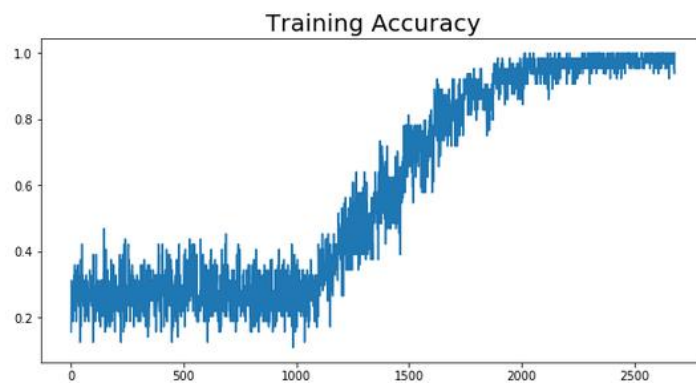


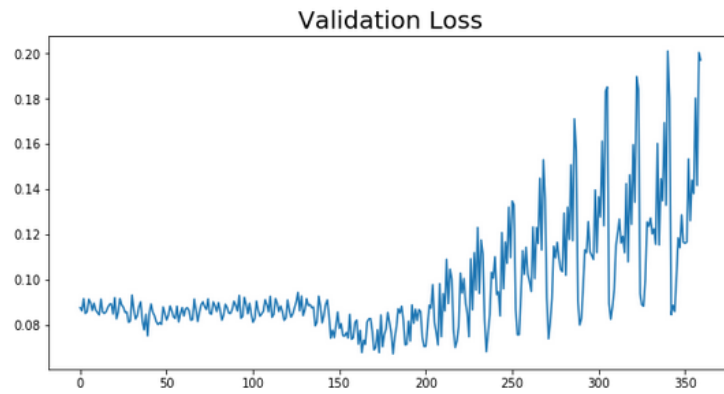
Sami Emre Erdogan
Student ID:2019280513

I have used 20 epochs for my implementation because I have a MacBook Air and the CPU power isn't powerful enough to do long epochs it takes a long time/ Although my epoch was 20 I have achieved promising results.

My results

```
Epoch 19 , train accuracy: 0.9816  
Epoch 19 , validation accuracy: 0.3773
```





final result

Test loss: 3.4233

Test accuracy: 0.4118

For this type of data with 20 epochs getting these results can be considered okay maybe I could have done slightly better with BERT I will try to implement that on my spare time.