

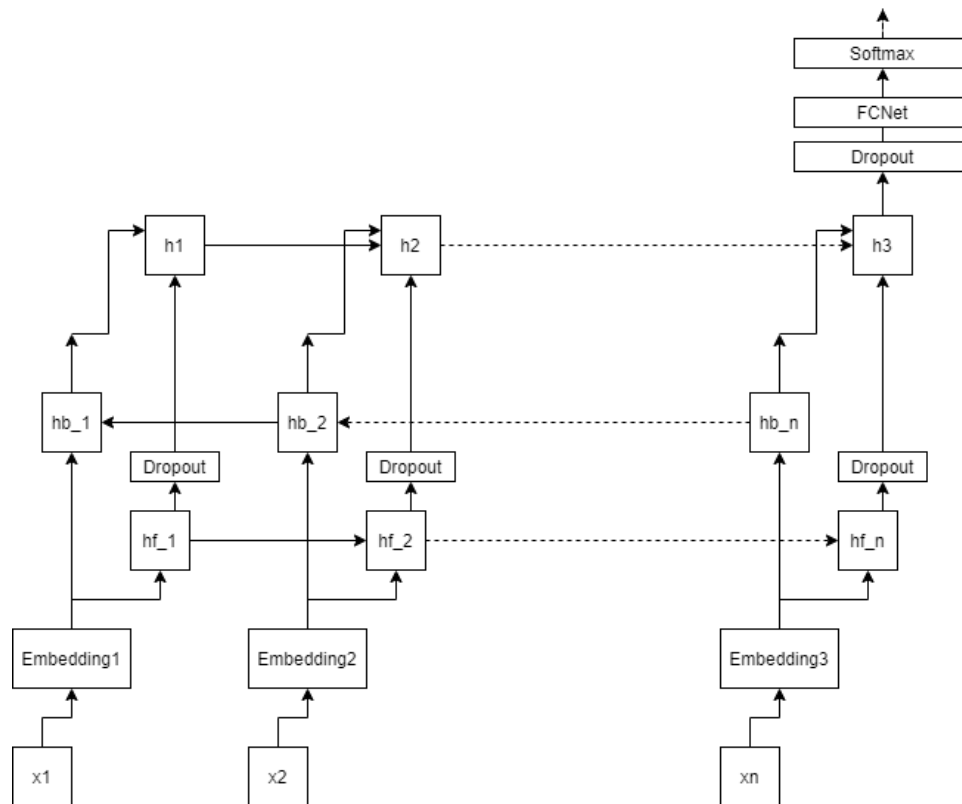
Sentence-level Sentiment Classification with PyTorch

My model is Bidirectional LSTM with two dropout layers.

I decided to use bidirectional LSTM model for sentiment classification, since usually bidirectional LSTM models understand context better (at least for word prediction problems).

Using dropout (0.5) reduces overfitting and improves model performance, so I put double dropout:) To further improve the performance, I tried different sizes of hidden layer (128, 256, 300, 512) and came to conclusion that size of 256 is the most suitable one.

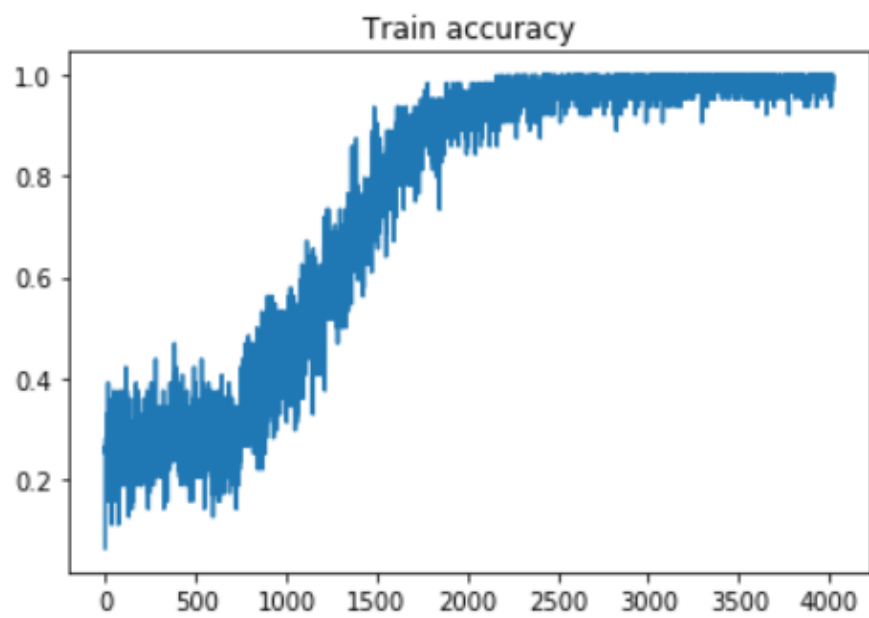
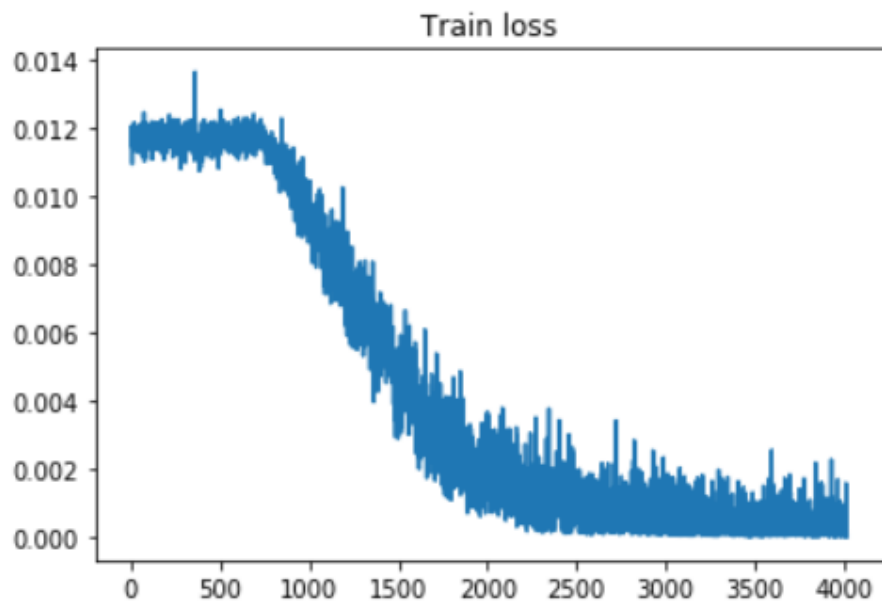
Here is the model architecture:

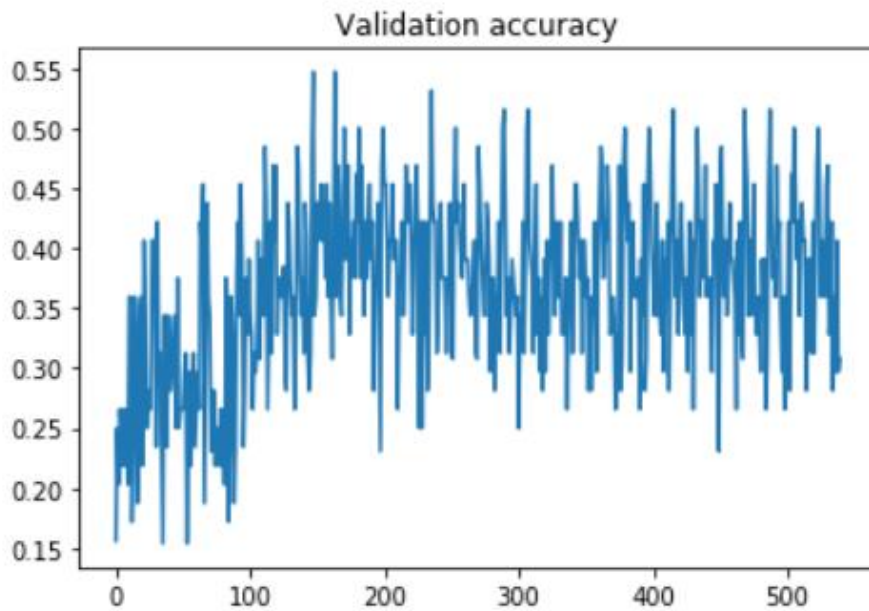
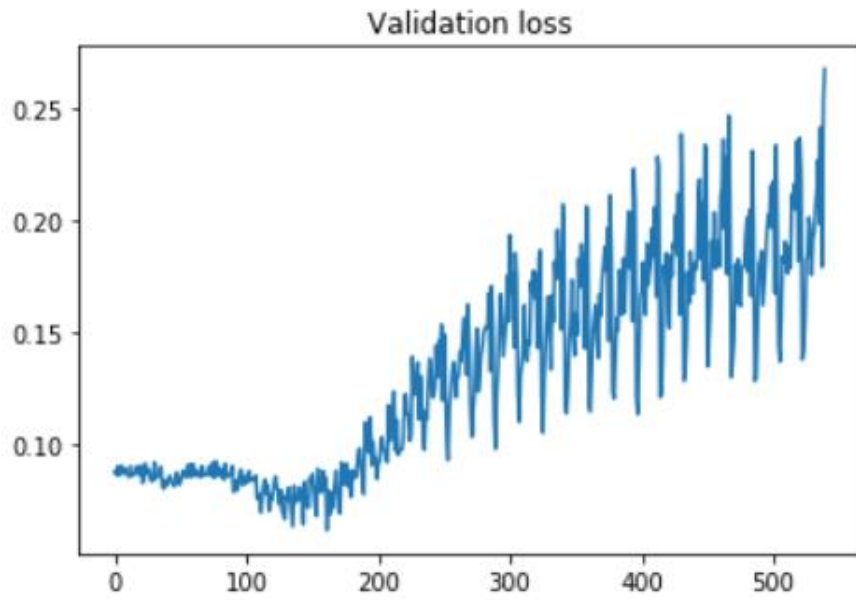


Hidden layer dim = 256. The model has been trained for 30 epochs.

Test loss 3.288

Test accuracy 0.403





Hidden layer dim = 128. The model has been trained for 13 epochs.

Test loss 2.542

Test accuracy 0.388

