Natural Language Processing - IMDB Movie Review

	Description	Hyperparameters	Number of Epochs	Training Loss	Training Accuracy	Test Accuracy	Comments
3a	**Given model** - Word Embedding Layer + 3 LSTM layers with BN and Locked dropout + Output Layer	ADAM optimizer with LR=0.001, BatchSize=200, VocabularySize=8000, HiddenUnits=500	75	3.9569	25.71	28.63	Trained this language model which took approximately 12 hours of walltime on xk nodes (GPU). The model began to converge around 43rd epoch during training.

	Temperature	Phrase	Model Generated Review
3b	1.0	i love this movie	i love this movie . there are no films contained in the past . i am not gon na have the guts to dream of a big motion picture or any animation . its family is life or the subject matter . (thank you and spare for the others and taking the guys in the room) . island of paradise is a must see movie ! it has great visual effects and very good acting . i loved the villain 's character .. but the use of lighting and colors leaves the city in dark shadows . i 'll take my mother from my friend 's home because it 's quite brutal and do n't know where it could get so special but it be you type ! watch it as it deserves my appreciation for the movie that has been around never , but i definitely will not be on that one
	1.0	i hate this movie	i hate this movie . this movie was just awful . i have read some of the comments , look at this movie supposedly having a record company or even a friend and the ones who made it at the bottom of its title and when hire the video sold out knowledge it should be a warning . if this is based on a true story but i mean i did , 7) . i have just finished watching the series , i recommend it for adults , especially if you are on a positive (and funny) way to be watching it . this movie is a classic of all american romance that deserves this movie . its an absolute joy to watch . in the first two episodes , were they killed one person , and attempts to sneak out to sell that . of course , of course , the
	0.25	i love this movie	i love this movie . i 'm not sure what the movie was about , but it was a good movie . i was n't expecting much , but i was wrong . the acting was good , the story was great , and the acting was great . i was very impressed with the acting , the story , the acting , the plot , the special effects , the special effects , the special effects , the special effects , the special effects , the sets , the costumes , the music ,
	0.25	i hate this movie	i hate this movie . i am a big fan of the original series , but this one is so bad it 's funny . i was n't expecting much from it , but i was wrong . it was a waste of time . i have seen it several times and have never seen it again . i ca n't believe that it was made in the early 90 's . it 's not a bad movie , but it 's not even bad enough to be funny . it 's not even funny . it 's just plain bad . i ca n't believe that it was made in the late 70 's . i 'm not a big fan of the genre , but i have to say that i did n't really like it . i do n't know what the director was thinking about , but i think that 's

	Description	Hyperparameters	Number of Epochs	Training Loss	Training Accuracy	Test Accuracy	Comments
3c	**Given model** - Word Embedding Layer + 3 LSTM layers with BN and Locked dropout + Output Layer	ADAM optimizer with LR=0.001, BatchSize=200, VocabularySize=8000, HiddenUnits=500	20	0.2334	90.29	90.48	The model achieved this accuracy on the 20th epoch.
	custom 1	SGD optimizer with LR=0.01, BatchSize=200, VocabularySize=8000, HiddenUnits=500	20	0.3937	82.47	86.47	Changed the optimizer to SGD and LR to 0.01
	custom 2	SGD optimizer with LR=0.01, BatchSize=200, VocabularySize=8000, HiddenUnits=500	20	0.24	89.81	86.22	Changed sequence length in training loop to 100