Natural Language Processing - IMDB Movie Review

	Description	Hyperparameters	Number of Epochs	Training Loss	Training Accuracy	Test Accuracy	Comments
Part 3a	Given Model	adam optim with learning rate 0.001, Hidden Units = 500, Batch size = 200	75	3.9175	25.66%	27.08%	does not work well, only reach accuracy 27%
Part 3b	Generated Review	Temperature=1.0	a girl , waiting to let her see that the one thing you can see this will midnight the music of the film . i 'll let you watch it before realizing that it 's a great lifetime movie . but i must warn it is a fiction that it defies your lesson . p.s . if you can watch such gorgeous films that end up being a poor hope you would n't go ahead and buy it . do yourself a favor and watch a film , a high 70 's movies like christmas , resident evil , the blue & white and the origins of the damned . open your heart are sometimes ... and you saw it a lot better . jet li is an amazing comedy , as well as the first two . `` it 's a generation '' , and i both enjoyed it . i just wish anyone would watch this film again . it 's artistic and its original and is very nice ! i saw it as a heart attack when i was 17 years old . i still enjoyed it again . my strong complaint is that enter in her every 40 million way and a 3 minute old book . a christmas carol had been done under a boring studio by bad movies but particularly the players themselves brought to a new level . i found myself very disappointed with this film , although the u.s. version would have been better done to the cinema . a synopsis . when he asks a guy who so much he 'll never get a naked or still way away there will say better . i recommend you see this show is definitely what you will get in and rent . the screen is				with temperature 1.0 the reviews are easy to undertand than those with tempture 0.5 and 0.233
	Generated Review	Temperature 0.5	a single time , he was a girl . the only thing that made this movie worth watching is the ending , which is not even the worst . the acting is horrible . the acting was terrible . i think the director was trying to play a part of the movie . the plot was predictable , the acting was terrible , the plot was predictable , the direction was awful , the plot was bad . the acting was poor . the plot was bad . the acting was bad . the plot was bad . the acting was terrible . the acting was terrible . i thought the movie was really good but i think it was the worst movie i have ever seen . i would have given it a 3 out of 10 . it was n't meant to be a comedy , but it was i would never want to see this again . i would like to see the movie again . i have seen it many times since i was in the theater . i 'm sure this is a movie you would enjoy , but it 's not bad . it 's like watching a soap opera . it is about a guy who has a good time , and is a very good guy . the movie is a joke , and it 's just so bad that it 's hard to believe that it 's a bad movie . i mean , the movie is a joke . it 's just a bad movie . i mean , i think i 've seen a lot of movies in my life , and i do n't know what you are supposed to be . i mean , i do n't think any				with temperature 0.5, there still exists some "loop" like "was bad", "was terrible" etc.. not as easy to understand as with temperature 1.0

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	Description	Hyperparameters	Number of Epochs	Training Loss	Training Accuracy	Test Accuracy	Comments
	Generated Review	Temperature 0.233	a very good movie . the story is about a young boy who is trying to get a job in a small town , and he is sent to a nearby city to find out that he is a man . he is a great man , and he is a great actor . he is a good actor , and he is a good actor . he is a good actor , but he is very good in this movie . he is a good actor , but he is a great actor . i have seen this movie many times and i am sure that he is a great actor . i think he is a great actor , but he is a great actor . i have seen many of the other movies in the past , but i think that this movie is a great movie . i think that it is a great movie . it is a great movie to watch with your family . it is a very funny movie , filled with adventure and suspense . i recommend this movie to anyone who likes a good story and a good story . i recommend this movie to anyone who likes a good horror movie and a great movie . i recommend this movie to anyone who likes a good horror movie . it is a great movie to watch with your family . i recommend this movie to anyone who likes a good story and a good laugh . i recommend this movie to anyone who likes a good story and a good story . i recommend this movie to anyone who likes a good story and a good story and a great story . i love the way the characters are portrayed .				predictions can get stuck in loops "is a great actor", "recommend this movie to anyone who"
Part 3c	Given Model	HiddenUnits=500, Learning rate=0.001, Adam Optimizer, Batch size = 200, parameters include 3rd lstm, 3rd bn_lstm and FC layer	25	0.1805	92.71%	91.32%	reach 92.7% accuracy only in 25 epochs
	Custom 1	HiddenUnits=500, Learning rate=0.001, Adam Optimizer, Batch size = 200, parameters include 2nd lstm, 2nd bn_lstm, 3rd lstm, 3rd bn_lstm and FC layer	17	0.1298	95.03%		increase set of parameters to train, accuracy has been improved a lot
	Custom 2	HiddenUnits=500, Learning rate=0.001, Adam Optimizer, Batch size = 200, parameters include all layers	15	0.0297	99.06%		use all the parameters in the model to train and get super high training accuracy