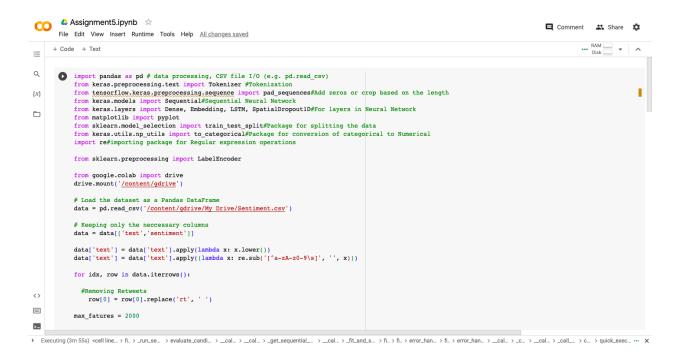
NN&DeepLearning_ICP10: LSTM

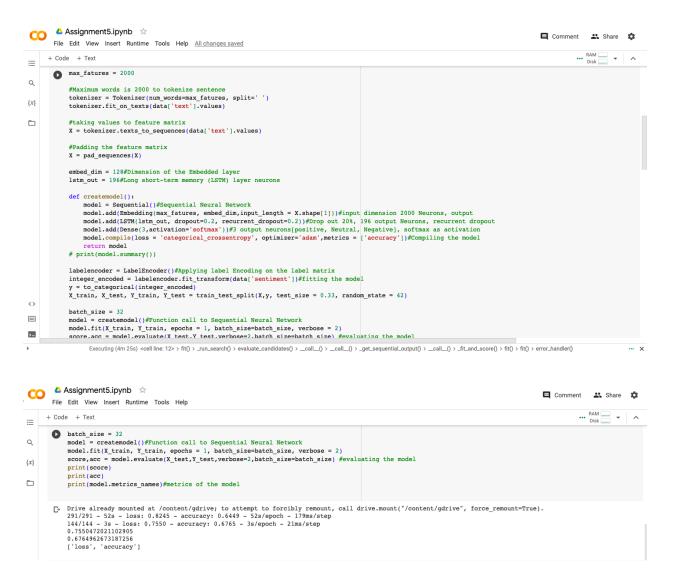
In class programming:

1. Save the model and use the saved model to predict on new text data (ex, "A lot of good things are happening. We are respected again throughout the world, and that's a great thing.@realDonaldTrump")

Ans:

Running the provided code SentimentAnalysis.py and the output is :





#1. Saving the model and using it to predict on new text data (ex, "A lot of good things are happening. We are respected again throughout the world, and that's a great thing.@realDonaldTrump") and the output is:

```
△ Assignment5.ipynb ☆
                                                                                                                                                       ■ Comment 👪 Share 🌣
       File Edit View Insert Runtime Tools Help
Q to #1. Save the model and use the saved model to predict on new text data (ex, "A lot of good things are happening. We are respected again throughout the world
            model.save('sentimentAnalysis.h5') #Saving the model
from keras.models import load_model #Importing the package for importing the saved model
            model= load_model('sentimentAnalysis.h5') #loading the saved model
print(integer_encoded)
            print(data['sentiment'])

    [1 2 1 ... 2 0 2]

                     Positive
                      Neutral
                     Positive
                     Positive
                     Negative
                     Positive
                     Positive
            13869
                     Negative
                     Positive
            Name: sentiment, Length: 13871, dtype: object
```

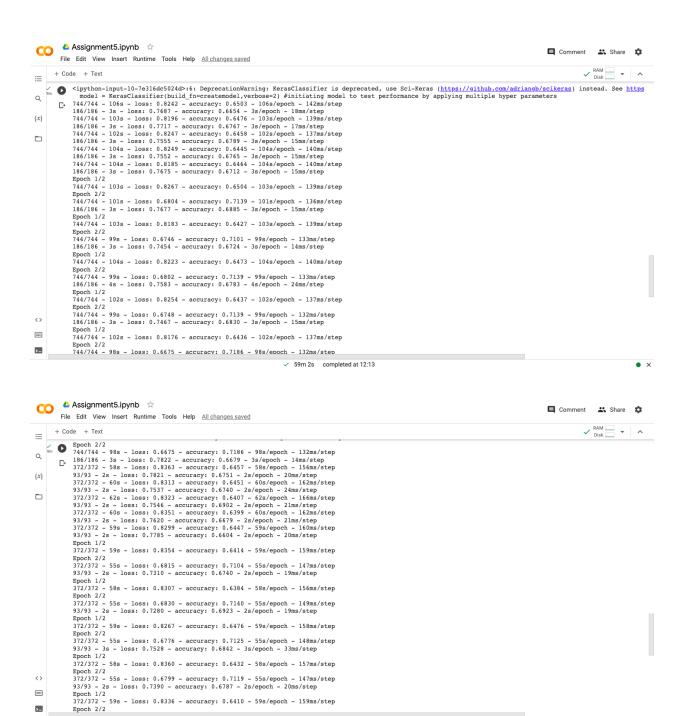
Predicting on the test data



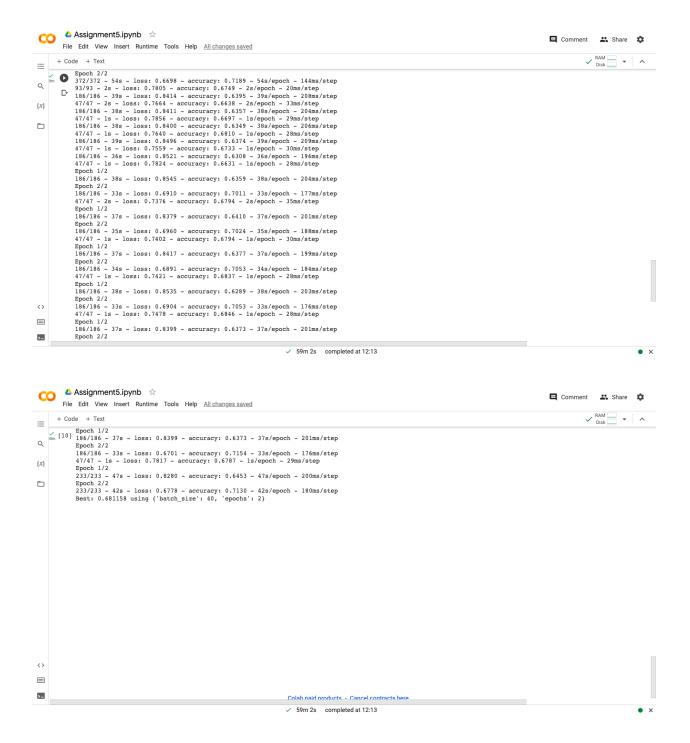
2. Apply GridSearchCV on the source code provided in the class

Ans:

Output:



×



Github link:

https://github.com/LahariKollipara/NNDL Assignment5