NEURAL NETWORK & DEEP LEARNING

ICP-10

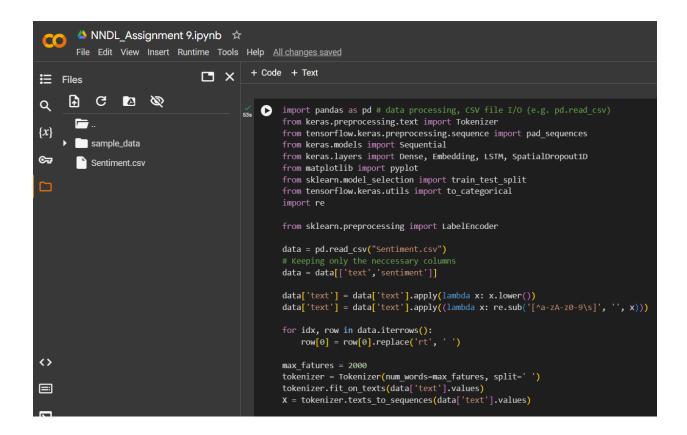
Name: SRAVYA REDDY PILLI

Student ID: 700747154

Git hub Link: https://github.com/09sravyareddy/NNDL-ICP10

Video link:

https://drive.google.com/file/d/1ZDHHxAM7J_GUVdCmvapms_VtpUQy0Af3/view?usp=sharing



```
+ Code + Text
X = pad_sequences(X)
      embed_dim = 128
      lstm_out = 196
      def createmodel():
          model = Sequential()
          model.add(Embedding(max fatures, embed dim,input length = X.shape[1]))
          model.add(LSTM(lstm_out, dropout=0.2, recurrent_dropout=0.2))
          model.add(Dense(3,activation='softmax'))
          model.compile(loss = 'categorical crossentropy', optimizer='adam',metrics = ['accuracy'])
          return model
      labelencoder = LabelEncoder()
      integer_encoded = labelencoder.fit_transform(data['sentiment'])
      y = to_categorical(integer_encoded)
      X_train, X_test, Y_train, Y_test = train_test_split(X,y, test_size = 0.33, random_state = 42)
      batch size = 32
      model = createmodel()
      model.fit(X_train, Y_train, epochs = 1, batch_size=batch_size, verbose = 2)
      score,acc = model.evaluate(X_test,Y_test,verbose=2,batch_size=batch_size)
      print(score)
      print(acc)
      print(model.metrics_names)
```

