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In [1]: #importing necessary libraries
        import keras
        from tensorflow.keras.preprocessing.text import one hot
        from tensorflow.keras.layers import Embedding, LSTM, Dropout, Dense
        from tensorflow.keras .preprocessing.sequence import pad sequences
        from tensorflow.keras.models import Sequential
        import numpy as np
        #Loading the IMDB file
        if name == " main ":
            import urllib.request as req
            import tarfile
            import os
            imdb url = "http://ai.stanford.edu/~amaas/data/sentiment/aclImdb v1.tar.gz"
            save_filename = "aclImdb_v1.tar.gz"
            if not os.path.exists(save filename):
                req.urlretrieve(imdb_url, save_filename)
            imdb_folder = "aclImdb"
            if not os.path.exists(imdb folder):
                with tarfile.open(save_filename) as tar:
                    tar.extractall()
            loaded model NLP= keras.models.load model("20868189 NLP model")
            import numpy as np
            import re
        #loading the test set into a test file alongside its reviews
            def get test file(data folder="/test"):
                reviews = []
                labels = []
                for index, sentiment in enumerate(["/neg/", "/pos/"]):
                    path = imdb folder + data folder + sentiment
                    for filename in sorted(os.listdir(path)):
                        with open(path + filename, 'r') as f:
                            review = f.read()
                            review = review.lower()
                            review = review.replace("<br />", " ")
                            review = re.sub(r"[^a-z ]", " ", review)
                            review = re.sub(r" +", " ", review)
                            reviews.append(review)
                            label = [0,0]
                            label[index] = 1
                            labels.append(label)
                return reviews, np.array(labels)
            voc size=10000 #vocabulary size
            sent len=100 #sentence length
            test reviews, test labels=get test file() #loading my test set into test review and test label sets
            onehot reptt=[one hot(words, voc size) for words in test reviews] #vectorization of my train review
            test reviews=pad sequences(onehot reptt , maxlen=sent len) #padding the test reviews to be equal to
         the sentence length
            y pred=loaded model NLP.predict(test reviews) #Performing prediction with the test review set
            score=loaded model NLP.evaluate(test labels, y pred, verbose=False) #Evaluating the model with the ac
        tual labels vs predicted labels
            print(score) #Printing the evaluation score
```

WARNING:tensorflow:Model was constructed with shape (None, 100) for input Tensor("input_1:0", shape= (None, 100), dtype=float32), but it was called on an input with incompatible shape (None, 2).

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[0.12165463715791702, 0.9983999729156494]