

D213-AdvancedDataAnalyticsPA2-Jason's MacBook Pro

August 24, 2022

0.0.1 D213 - Advanced Data Analytics - PA2

0.0.2 Background Info:

Build a neural network designed to learn word usage and context using NLP techniques.

You will provide visualizations and a report, as well as build your network in an interactive development environment.

A1 Question: *Using historical product reviews, what effect will Natural Language Processing and Neural Networks have on the ability to accurately predict future consumer sentiment?*

```
[1]: # Standard libraries

import numpy as np # Array manipulation
import pandas as pd # DataFrame manipulation

# Plot Data
import seaborn as sns # for plotting
import matplotlib.pyplot as plt
%matplotlib inline
# import plotly.offline as py # for plotting
# py.init_notebook_mode(connected=True)
# import plotly.graph_objs as go
# import plotly.tools as tls
# import plotly.express as px

# Local File Path Handling
import gzip # for reading compressed files
import os, sys # OS and System commands

# Stripping out unnecessary chars
import re # regex

# Handle Warnings
import warnings
warnings.filterwarnings('ignore')
# Warnings filter
```

```

from warnings import simplefilter
# ignore all future warnings
simplefilter(action='ignore', category=FutureWarning)

# Timer for debugging
%time
%timeit

```

CPU times: user 1e+03 ns, sys: 0 ns, total: 1e+03 ns
Wall time: 2.86 µs

```

[2]: # Analytics Library Imports

from scipy import signal
import sklearn # Predictive Analytics
from sklearn import preprocessing
from sklearn.preprocessing import OneHotEncoder
from sklearn import model_selection
from sklearn.model_selection import train_test_split

```

```

[3]: # TensorFlow and Keras

import tensorflow as tf # ML / Deep Learning
import keras # Deep Learning API
from keras import preprocessing

from tensorflow.keras.preprocessing.text import Tokenizer
from tensorflow.keras.callbacks import EarlyStopping
from tensorflow.keras.models import load_model, Sequential
from tensorflow.keras.layers import Dense, Dropout, Embedding, LSTM,
↳ SpatialDropout1D
from tensorflow.keras.preprocessing.sequence import pad_sequences

```

```

[4]: import nltk # Natural Language Processing
nltk.download('omw-1.4') # Download the OntoMW dictionary
from nltk.corpus import stopwords # NLTK Corpus Stopwords
from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator # For WordCloud
from PIL import Image #Pillow with WordClout
from nltk.tokenize import word_tokenize # from nltk import word_tokenize
#from nltk import word_tokenize
from nltk.stem import PorterStemmer as porter # Stemming of Strings
nltk.download('stopwords')
nltk.download('punkt')
nltk.download('wordnet')

```

[nltk_data] Downloading package omw-1.4 to
[nltk_data] /Users/jasonwillis/nltk_data...

```
[nltk_data] Package omw-1.4 is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] /Users/jasonewilllis/nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package punkt to
[nltk_data] /Users/jasonewilllis/nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package wordnet to
[nltk_data] /Users/jasonewilllis/nltk_data...
[nltk_data] Package wordnet is already up-to-date!
```

[4]: True

```
[5]: from platform import python_version
print('The python version used is: %s' % python_version())
print('TensorFlow Version used is: ',tf.__version__)
```

```
The python version used is: 3.7.13
TensorFlow Version used is: 2.7.0
```

[6]: # %lsmagic

```
[7]: # Verify Input File Locations
print(os.listdir(path='./Data/sentiment_labelled_sentences/'))
# Output: ['.DS_Store', 'combo.txt', 'amazon_cells_labelled.txt', 'readme.txt',
↳ 'yelp_labelled.txt', 'imdb_labelled.txt']
```

```
['combo.txt', 'amazon_cells_labelled.txt', 'readme.txt', '.ipynb_checkpoints',
'yelp_labelled.txt', 'imdb_labelled.txt']
```

```
[8]: # load data file
df_amz = pd.read_csv('./Data/sentiment_labelled_sentences/amazon_cells_labelled.
↳txt', delimiter='\t', header=None)
df_amz.columns = ['review', 'sentiment']

df_imdb = pd.read_csv('./Data/sentiment_labelled_sentences/imdb_labelled.txt',
↳delimiter='\t', header=None)
df_imdb.columns = ['review', 'sentiment']

df_yelp = pd.read_csv('./Data/sentiment_labelled_sentences/yelp_labelled.txt',
↳delimiter='\t', header=None)
df_yelp.columns = ['review', 'sentiment']
```

```
[9]: # Concatenate and Read in Combo File to DF

df_concat = pd.concat([df_amz, df_imdb, df_yelp], axis=0)
df = df_concat.copy()
```

```
df.reset_index(drop=True, col_fill=True, inplace=True)
#df.info()
df.head()
```

```
[9]:
```

	review	sentiment
0	So there is no way for me to plug it in here i...	0
1	Good case, Excellent value.	1
2	Great for the jawbone.	1
3	Tied to charger for conversations lasting more...	0
4	The mic is great.	1

```
[10]: # Create Label for ratings 1 and 0 - just for the experience if ratings were 0
      ↪ - 5
def label(i):
    return 1 if i >= 1 else 0
df['label'] = df['sentiment'].apply(label)
df.head(10)
```

```
[10]:
```

	review	sentiment	label
0	So there is no way for me to plug it in here i...	0	0
1	Good case, Excellent value.	1	1
2	Great for the jawbone.	1	1
3	Tied to charger for conversations lasting more...	0	0
4	The mic is great.	1	1
5	I have to jiggle the plug to get it to line up...	0	0
6	If you have several dozen or several hundred c...	0	0
7	If you are Razr owner...you must have this!	1	1
8	Needless to say, I wasted my money.	0	0
9	What a waste of money and time!.	0	0

```
[11]: #Rename the columns
      #df.rename(columns = {"rating": "overall"}, inplace=True) Do this if applicable
      ↪ but I'm not doing here.

      # Drop the column named rating
      #df.drop(['sentiment'],axis=1)
df = df.drop(['sentiment'],axis=1)
df.head()
```

```
[11]:
```

	review	label
0	So there is no way for me to plug it in here i...	0
1	Good case, Excellent value.	1
2	Great for the jawbone.	1
3	Tied to charger for conversations lasting more...	0
4	The mic is great.	1

```
[12]: # I may need to reset the index
pd.DataFrame(df_amz).to_csv('./Output/_df_amz.csv')
pd.DataFrame(df_amz).to_csv('./Output/_df_amz.csv')
pd.DataFrame(df_amz).to_csv('./Output/_df_amz.csv')
pd.DataFrame(df_concat).to_csv('./Output/_df_CONCAT.csv')
pd.DataFrame(df).to_csv('./Output/_Start_df.csv')
```

```
[13]: # Convert non-string values (if any)
for i in range(0, len(df)-1):
    if type(df.iloc[i] ['review'])!= str:
        count +=1
        df.iloc[i] ['review'] = str(df.iloc[i] ['review'])
    print("Converted Review(s): ", count)
```

```
[14]: # Convert/Verify Review Field to Lowercase String
df['review'] = df['review'].astype(str).str.lower()
#df['review'] = df['review'].str.lower()

# Convert/Verify label Field to Int
df['label'] = df['label'].astype(int)
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2748 entries, 0 to 2747
Data columns (total 2 columns):
#   Column   Non-Null Count  Dtype
---  -
0    review   2748 non-null   object
1    label    2748 non-null   int64
dtypes: int64(1), object(1)
memory usage: 43.1+ KB
```

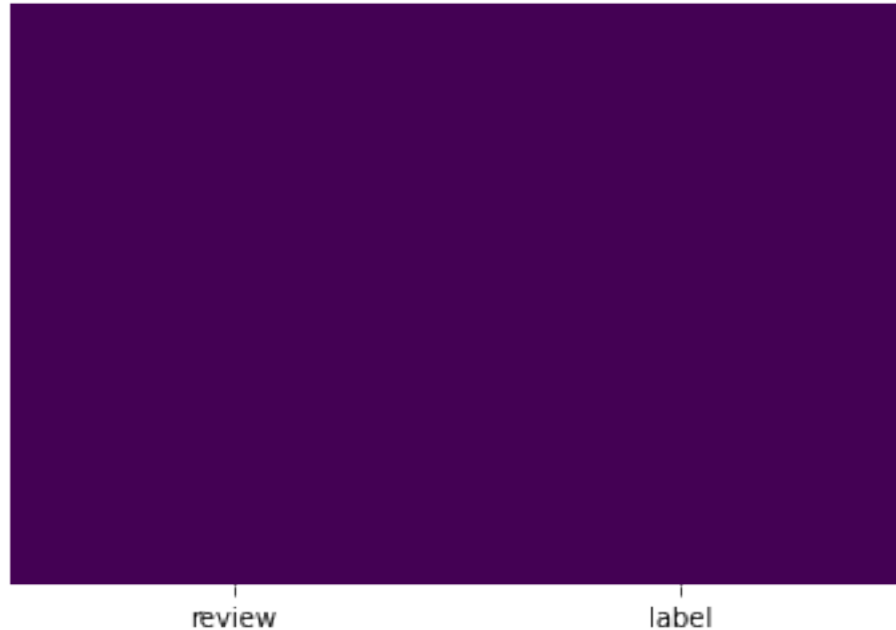
```
[15]: # Drop any null columns
df = df.dropna()

# Any Null Values?
df.isnull().any()
```

```
[15]: review    False
label        False
dtype: bool
```

0.0.3 Check for Missing Values

```
[16]: # Mapping to view missing data...none present.  
sns.heatmap(df.isnull(), yticklabels=False, cbar=False, cmap='viridis');
```



```
[17]: def remove_punctuation(text):  
        final = "".join(u for u in text if u not in ("?", "!", ".", ",", ":", ";  
        ↪", "\"", "'", "`", "-"))  
        return final  
df['review'] = df['review'].apply(remove_punctuation)  
df = df.dropna(subset=['review'])  
#df['Summary'] = df['review'].apply(remove_punctuation)  
#df_new = df[['Summary', 'sentiment']]  
print("Longest Summary Review: ",len(max(df['review'])), " chars")  
#df.head(-5)
```

Longest Summary Review: 57 chars

Explore Data

```
[18]: # Sample DataFrame Fields  
df.head()
```

```
[18]:
```

	review	label
0	so there is no way for me to plug it in here i...	0
1	good case excellent value	1
2	great for the jawbone	1

```

3 tied to charger for conversations lasting more...      0
4               the mic is great                        1

```

[19]: *# Understand Columns, Shape and Types*

```

print("*****"*5)
print("* DF Columns: ",df.columns)
print("* DF Shape: ",df.shape)
print("*****"*5)
pd.set_option('display.max_colwidth', 5000) # set max width
df.info()

```

```

*****
* DF Columns: Index(['review', 'label'], dtype='object')
* DF Shape: (2748, 2)
*****
<class 'pandas.core.frame.DataFrame'>
Int64Index: 2748 entries, 0 to 2747
Data columns (total 2 columns):
#   Column  Non-Null Count  Dtype
---  -
0   review  2748 non-null      object
1   label   2748 non-null      int64
dtypes: int64(1), object(1)
memory usage: 64.4+ KB

```

[20]: `df.describe(include='all')`

```

[20]:
      count      review      label
count      2748    2748.000000
unique      2719             NaN
top    great phone             NaN
freq         6             NaN
mean        NaN      0.504367
std         NaN      0.500072
min         NaN      0.000000
25%         NaN      0.000000
50%         NaN      1.000000
75%         NaN      1.000000
max         NaN      1.000000

```

[21]: *# Tally Review Field Counts*

```

print("Percentage of Pos/Neg Reviews:\n", df['label'].value_counts() /
      ↪len(df['label']))
print("Totals:\n",df['label'].value_counts()) # Notice pos/neg ~approx equal

```

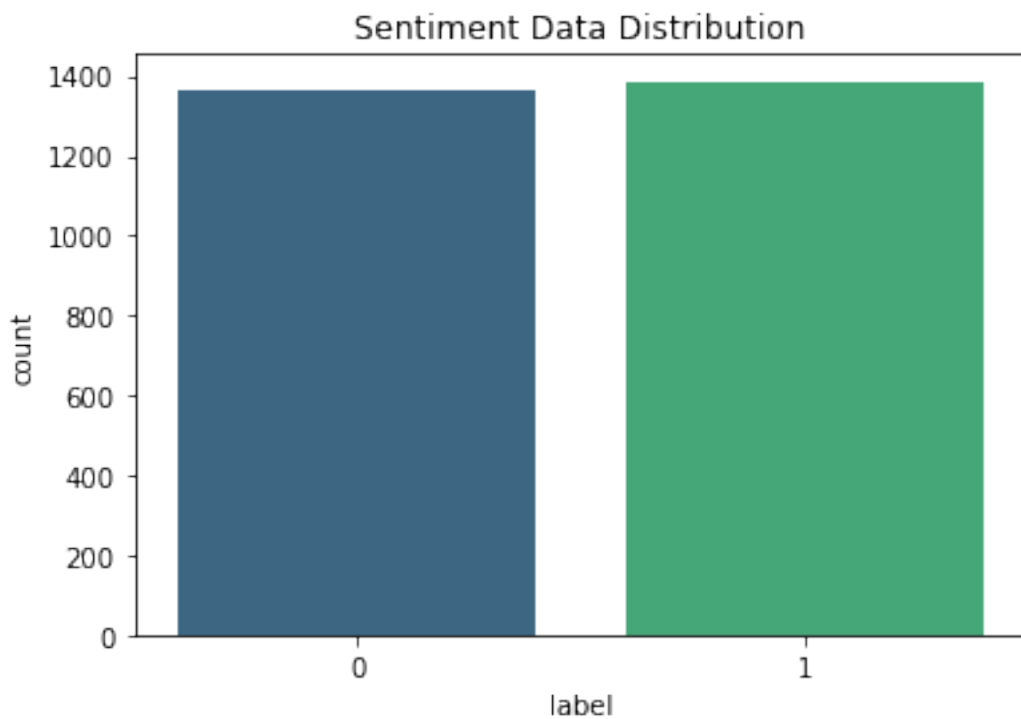
```

Percentage of Pos/Neg Reviews:
1      0.504367

```

```
0    0.495633
Name: label, dtype: float64
Totals:
1    1386
0    1362
Name: label, dtype: int64
```

```
[22]: # View Data Distro
sns.countplot(data=df, x='label', palette='viridis').set(title='Sentiment Data_
↳Distribution');
```



```
[23]: # Longest Review
length_of_reviews = df.review.str.len()

type(length_of_reviews) # pandas.core.series.Series

# Find Max Length
print("Min: ", min(length_of_reviews))
print("Max: ", max(length_of_reviews))
```

```
Min: 7
Max: 7699
```



```
[24]: review_df = df
review_df.shape
```

```
[24]: (2748, 2)
```

```
[25]: # Vocab Size (B1b)
tokenizer = Tokenizer()
tokenizer.fit_on_texts(review_df['review']) # Fit tokenizer on reviews
print('Vocab Size: ', len(tokenizer.word_index)+1) # Vocab size is the number
↳ of unique words + 1 for the 0 index
```

Vocab Size: 5383

```
[26]: # Remove Stop Words
description_list = [] # Create empty list to store cleaned reviews
stop_words = stopwords.words('english')

for description in review_df.review: # Loop through each review
    description = re.sub("[^a-zA-Z]", " ", description)

    #Convert to lower case
    description = description.lower()

    #Perform tokenization
    description=nlk.word_tokenize(description)

    #Perform lemmatization to bring the words to its root or join the inflected
    ↳ words.
    lemma = nltk.WordNetLemmatizer()
    description = [lemma.lemmatize(word) for word in description]

    #Removing stopwords
    description = [word for word in description if not word in stop_words]
    description = " ".join(description)
    description_list.append(description)
```

```
[27]: # Display first five 5 reviews
description_list[0:5]
```

```
[27]: ['way plug u unless go converter',
'good case excellent value',
'great jawbone',
'tied charger conversation lasting minutesmajor problem',
'mic great']
```

```
[28]: print(stop_words)
```

```
['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're",
```

"you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't"]

```
[29]: # Character Count
commentary = df['review'].str.lower()
list_of_chars = []
for comment in commentary:
    for character in comment:
        if character not in list_of_chars:
            list_of_chars.append(character)
num_of_chars = len(list_of_chars)
print("Number of Characters: ", num_of_chars)
print(list_of_chars) # Notice the presence of unusual characters (B1a)
```

Number of Characters: 56

['s', 'o', ' ', 't', 'h', 'e', 'r', 'i', 'n', 'w', 'a', 'y', 'f', 'm', 'p', 'l', 'u', 'g', 'b', 'c', 'v', 'd', 'x', 'j', '4', '5', 'z', 'q', '+', 'k', '/', '7', '3', '6', '8', '0', '2', '1', ')', '(', '&', '\$', '*', '%', '9', '#', '[', ']', '\x96', '\t', '\n', 'é', '\x85', 'â', '\x97', 'ê']

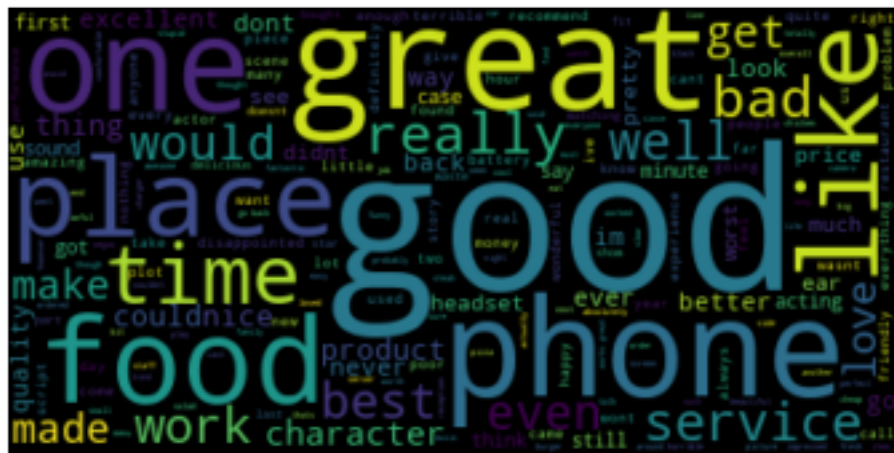
```
[30]: commentary_length = []
for char_len in commentary:
    commentary_length.append(len(char_len.split(' '))) # Count characters,
    ↪ split on spaces

# Set max, min, median vars
commentary_max = np.max(commentary_length)
commentary_min = np.min(commentary_length)
commentary_median = np.median(commentary_length)
```

```
print("The minimum length or our sequences is: ", commentary_min)
print("The median length or our sequences is: ", commentary_median)
print("The maximum length or our sequences is: ", commentary_max)
```

```
The minimum length of our sequences is: 1
The median length of our sequences is: 11.0
The maximum length of our sequences is: 1393
```

```
[57]: from nltk.corpus import stopwords
      from nltk.tokenize import word_tokenize
      # Create Stopwords List
      stopwords = set(STOPWORDS)
      stopwords = set(stopwords.words('english')) # NLTK Stopwords
      stopwords.update(['br', 'href', 'movie', 'movies', 'film', 'films', 'cinema',
      ↪ 'also', 'i've', ]) # Add additional stopwords
      textt = " ".join(review for review in df['review'].iloc[:]) # Join all reviews
      ↪ into one string
      wordcloud = WordCloud(stopwords=stopwords).generate(textt) # Generate
      ↪ WordCloud, save into variable
      plt.imshow(wordcloud, interpolation='bilinear') # Plot WordCloud
      plt.axis("off") # Remove axis
      plt.savefig('./Output/wordcloud.png') # Save WordCloud as png
      plt.show()
```



```
[32]: max_review_length = len(description)
      print("Max Review Length: ", max_review_length)
```

Max Review Length: 72

```
[33]: df.columns
```

```
[33]: Index(['review', 'label'], dtype='object')
```

```
[34]: # Use Keras Tokenizer to Filter Data and Quantify Vocab Size
keras_token = Tokenizer(filters='\t\n}')~!|#*=&><:;+. {/, (? $ ^ % _ - ` @) [ \ ] ', _
    ↪ oov_token = '[UNK]', lower = True)

# Fit Commentary Dict Based on Frequency
keras_token.fit_on_texts(commentary)

word_count = keras_token.word_index # Create Dict Var
print('Size of data vocab: ', len(word_count)+1) # Print Word Count + 1 for OOV
    ↪ index
list(word_count.items())[2015:2022] # Random Sample
```

Size of data vocab: 5384

```
[34]: [('blown', 2016),
      ('events', 2017),
      ('result', 2018),
      ('slightest', 2019),
      ('duet', 2020),
      ('doctor', 2021),
      ('extraordinary', 2022)]
```

```
[35]: # tokens = nltk.word_tokenize('Today is a wonderful day')
# stemmed_tokens = [porter.stem(token) for token in tokens]
# stemmed_tokens
```

```
[36]: # Apply Tokenizer and Pad to max length
reviews = df.review.values # Convert to array
tokenizer = Tokenizer(num_words=10000) # Set vocab size
tokenizer.fit_on_texts(reviews) # Fit tokenizer on reviews
vocab_size = len(tokenizer.word_index) + 1
encoded_docs = tokenizer.texts_to_sequences(reviews) # Convert to sequences
padded_sequence = pad_sequences(encoded_docs, maxlen=200) # max length of 200
    ↪ words

print("Length of DataFrame: ", len(df))
print("Length of Vocab Size: ", len(tokenizer.word_index) + 1)
# oov_tok = "<oov>" # Out of Vocabulary Token
embedding_dim = 128 # Embedding Dimension
max_length = 72 # Max Length of Sentence
# trunc_type='post'
# padding_type='post'
```

Length of DataFrame: 2748

Length of Vocab Size: 5383

```
[37]: vocab_size = 15000 # Set vocab size
max_sequence_embedding = int(round(np.sqrt(np.sqrt(vocab_size)),0)) # Max
↳Sequence Length
max_sequence_embedding
```

```
[37]: 11
```

```
[38]: # Convert Sentiment Scores
sentiment_label = df.label.factorize() # Convert to 0/1
sentiment_label
```

```
[38]: (array([0, 1, 1, ..., 0, 0, 0]), Int64Index([0, 1], dtype='int64'))
```

```
[39]: print("Word Index Length: ",len(tokenizer.word_index)) # Print Word Index Length
print(tokenizer.word_index) # Print Word Index
```

Word Index Length: 5382

```
{'the': 1, 'and': 2, 'i': 3, 'a': 4, 'is': 5, 'to': 6, 'it': 7, 'this': 8, 'of':
9, 'was': 10, 'in': 11, 'for': 12, 'not': 13, 'that': 14, 'with': 15, 'my': 16,
'very': 17, 'good': 18, 'on': 19, 'great': 20, 'you': 21, 'but': 22, 'have': 23,
'are': 24, 'movie': 25, 'as': 26, 'so': 27, 'phone': 28, 'film': 29, 'its': 30,
'all': 31, 'be': 32, 'one': 33, 'o': 34, 'had': 35, 'at': 36, '1': 37, 'food':
38, 'like': 39, 'just': 40, 'place': 41, 'time': 42, 'were': 43, 'service': 44,
'an': 45, 'if': 46, 'from': 47, 'really': 48, 'there': 49, 'bad': 50, 'they':
51, 'we': 52, 'out': 53, 'has': 54, 'well': 55, 'about': 56, 'dont': 57,
'would': 58, 'or': 59, 'no': 60, 'your': 61, 'by': 62, 'best': 63, 'only': 64,
'even': 65, 'ever': 66, 'here': 67, 'also': 68, 'will': 69, 'back': 70, 'up':
71, 'when': 72, 'me': 73, 'more': 74, 'than': 75, 'quality': 76, 'go': 77,
'what': 78, 'love': 79, 'ive': 80, 'he': 81, 'can': 82, 'made': 83, 'which': 84,
'because': 85, 'how': 86, 'product': 87, 'im': 88, 'get': 89, 'too': 90,
'their': 91, 'work': 92, 'some': 93, 'any': 94, 'works': 95, 'could': 96,
'nice': 97, 'better': 98, 'excellent': 99, 'after': 100, 'do': 101, 'never':
102, 'recommend': 103, 'been': 104, 'much': 105, 'sound': 106, 'who': 107,
'again': 108, 'use': 109, 'did': 110, 'our': 111, 'other': 112, 'headset': 113,
'think': 114, 'his': 115, 'battery': 116, 'first': 117, 'way': 118, 'them': 119,
'see': 120, 'didnt': 121, 'make': 122, 'pretty': 123, 'acting': 124, 'most':
125, 'worst': 126, 'now': 127, 'still': 128, 'got': 129, 'does': 130, 'say':
131, 'enough': 132, '2': 133, 'over': 134, '10': 135, 'characters': 136, 'two':
137, 'ear': 138, 'little': 139, 'disappointed': 140, 'everything': 141, 'am':
142, 'every': 143, 'then': 144, 'thing': 145, 'price': 146, 'being': 147,
'right': 148, 'waste': 149, 'going': 150, 'people': 151, 'these': 152, 'case':
153, 'off': 154, 'definitely': 155, 'minutes': 156, 'real': 157, 'terrible':
158, 'amazing': 159, 'money': 160, 'look': 161, 'movies': 162, 'new': 163,
'both': 164, 'know': 165, 'experience': 166, 'cant': 167, 'came': 168, 'into':
169, 'doesnt': 170, 'few': 171, 'many': 172, 'wont': 173, 'friendly': 174,
'story': 175, 'her': 176, 'far': 177, 'poor': 178, 'piece': 179, 'used': 180,
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```
[40]: # Reviews Encoded and Padded
print(reviews[0])
print(encoded_docs[0])
```

so there is no way for me to plug it in here in the us unless i go by a converter

[27, 49, 5, 60, 118, 12, 73, 6, 368, 7, 11, 67, 11, 1, 184, 640, 3, 77, 62, 4, 2215]

```
[41]: # view padded sequence for above example
print(padded_sequence[0])
```

```
[ 0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0]
```

0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	27	49	5
60	118	12	73	6	368	7	11	67	11	1	184	640	3
77	62	4	2215]										

```
[42]: # Splitting the data into training and test set.
X = np.array(description_list)
y = review_df.label.values

from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.20,
↳random_state = 15, stratify = y)

X_train, X_validation, y_train, y_validation = train_test_split(X_train,
                                                                y_train,
                                                                random_state = 73,
                                                                test_size = 0.20,
                                                                stratify = y_train)

y_train = pd.Series(y_train)
y_test = pd.Series(y_test)

# View the training and testing sample sizes
print("Training size: ", X_train.shape)
print("Testing size: ", X_test.shape)
```

Training size: (1758,)
Testing size: (550,)

```
[43]: # X = padded_sequence
# y = np.array(df[['label']])
# X_train, X_test, y_train, y_test = train_test_split(X,
#
#                                                    y,
#                                                    random_state = 73,
#                                                    test_size = 0.20,
#                                                    stratify = y)

# X_train, X_validation, y_train, y_validation = train_test_split(X_train,
#
#                                                    y_train,
#                                                    random_state = 73,
#                                                    test_size = 0.20,
#                                                    stratify = y_train)

# X_train = str(X_train).lower()
```

```
# X_test = str(X_test).lower()
```

```
[44]: print("X Shape: ",X.shape)
      print("y Shape: ",y.shape)
      print("X_train Shape: ",X_train.shape)
      print("X_test Shape: ",X_test.shape)
      print("y_train Shape: ",y_train.shape)
      print("y_test Shape: ",y_test.shape)
```

```
X Shape: (2748,)
y Shape: (2748,)
X_train Shape: (1758,)
X_test Shape: (550,)
y_train Shape: (1758,)
y_test Shape: (550,)
```

```
[45]: #tokenizer = Tokenizer(oov_token='<UNK>')
      tokenizer = Tokenizer(oov_token='<OOV>')

      #Fit Commentary Dict Based on Frequency
      keras_token.fit_on_texts(X_train)

      word_count = keras_token.word_index # Create Dict Var
      print('Size of data vocab: ', len(word_count)+1) # Print Word Count + 1 for OOV
      ↪index
      list(word_count.items())[2015:2022] # Random Sample

      tokenizer.fit_on_texts(X_train)

      vocab_size=len(tokenizer.word_index)+1
      word_index=tokenizer.word_index
      train_sequences=tokenizer.texts_to_sequences(X_train)
      test_sequences=tokenizer.texts_to_sequences(X_test)
      train_padded=pad_sequences(train_sequences, padding='post',
      ↪maxlen=max_review_length)
      test_padded=pad_sequences(test_sequences, padding='post',
      ↪maxlen=max_review_length)
```

```
Size of data vocab: 5571
```

```
[46]: # Verify Shapes
      print('X_train Shape: {} \nX_test Shape: {} \nX Validation Shape: {}'.
      ↪format(X_train.shape, X_test.shape, X_validation.shape))
```

```
X_train Shape: (1758,)
X_test Shape: (550,)
```

X_Validation Shape: (440,)

```
[47]: sequences_train = tokenizer.texts_to_sequences(X_train)
sequences_train
```

```
[47]: [[184, 222, 507, 64, 185, 33],
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...]
```

```
[48]: # Train --48:00
sequences_train = tokenizer.texts_to_sequences(X_train)
padded_train = train_padded #pad_sequences(sequences_train, maxlen=max_length,
    ↪padding=padding_type, truncating=trunc_type)

# Test
sequences_test = tokenizer.texts_to_sequences(X_test)
padded_test = test_padded #pad_sequences(sequences_test, maxlen=max_length,
    ↪padding=padding_type, truncating=trunc_type)

# Display the Padded Sequence
np.set_printoptions(threshold=sys.maxsize)
padded_train[1]
```

```
[48]: array([[ 15, 156, 170,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
           0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
           0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
           0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
           0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,    0,
           0,    0,    0,    0,    0,    0,    0], dtype=int32)
```

```
[49]: # Convert padded data to numpy array to be used in model.
training_padded = np.array(padded_train)
training_label = np.array(y_train)
test_padded = np.array(padded_test)
test_label = np.array(y_test)
```

```
[50]: # Export padded train/test data
pd.DataFrame(X_train).to_csv('./Output/X_training_df.csv')
pd.DataFrame(X_test).to_csv('./Output/X_testing_df.csv')
pd.DataFrame(y_train).to_csv('./Output/y_training_df.csv')
```

```
pd.DataFrame(y_test).to_csv('./Output/y_testing_df.csv')
pd.DataFrame(X_validation).to_csv('./Output/X_validation_df.csv')
pd.DataFrame(y_validation).to_csv('./Output/y_validation_df.csv')
```

```
[51]: # B4 - Sentiment Analysis

activation = 'sigmoid' #'softmax'
loss = 'binary_crossentropy' #'categorical_crossentropy'
optimizer = 'adam' #rmsprop

num_epochs = 20

# Define early_stopping_monitor
early_stopping_monitor=EarlyStopping(patience=2)

model = tf.keras.Sequential([
    tf.keras.layers.Embedding(vocab_size, embedding_dim,
    ↪input_length=max_length),
    tf.keras.layers.GlobalAveragePooling1D(),
    tf.keras.layers.Dense(100, activation='relu'),
    tf.keras.layers.Dense(50, activation='relu'),
    tf.keras.layers.Dense(1, activation=activation)
])

model.compile(loss=loss, optimizer=optimizer, metrics=['accuracy'])

model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
embedding (Embedding)	(None, 72, 128)	461056
global_average_pooling1d (GlobalAveragePooling1D)	(None, 128)	0
dense (Dense)	(None, 100)	12900
dense_1 (Dense)	(None, 50)	5050
dense_2 (Dense)	(None, 1)	51

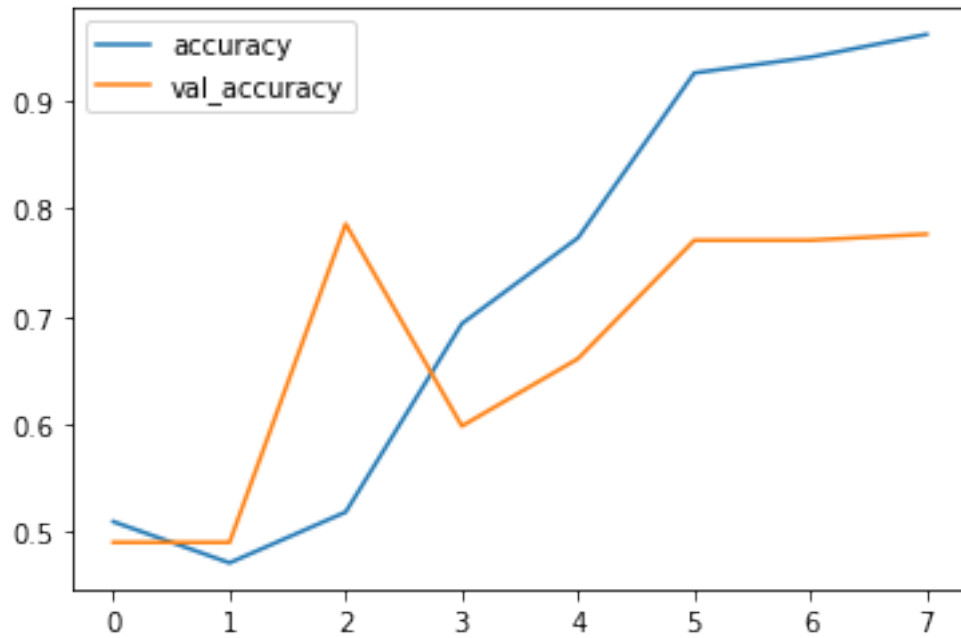
=====
 Total params: 479,057
 Trainable params: 479,057
 Non-trainable params: 0

2022-08-24 06:46:35.401545: I tensorflow/core/platform/cpu_feature_guard.cc:151] This TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations: SSE4.1 SSE4.2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.

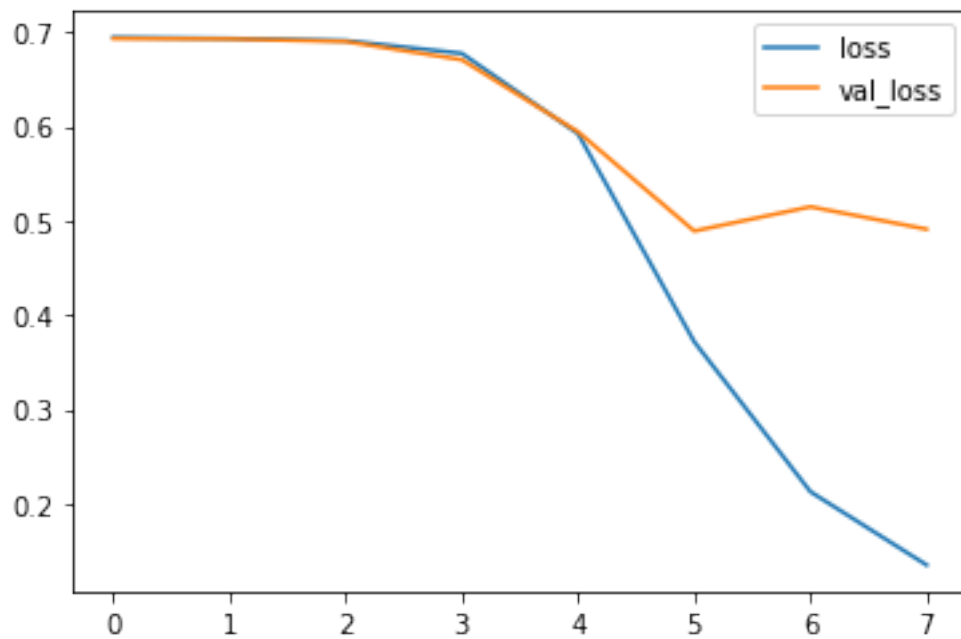
```
[52]: history = model.fit(training_padded, training_label, batch_size=32,  
    ↪ epochs=num_epochs, validation_split = 0.3,  
    ↪ callbacks=[early_stopping_monitor], verbose=True)
```

```
Epoch 1/20  
39/39 [=====] - 0s 5ms/step - loss: 0.6943 - accuracy:  
0.5098 - val_loss: 0.6932 - val_accuracy: 0.4905  
Epoch 2/20  
39/39 [=====] - 0s 3ms/step - loss: 0.6932 - accuracy:  
0.4715 - val_loss: 0.6927 - val_accuracy: 0.4905  
Epoch 3/20  
39/39 [=====] - 0s 3ms/step - loss: 0.6909 - accuracy:  
0.5187 - val_loss: 0.6899 - val_accuracy: 0.7860  
Epoch 4/20  
39/39 [=====] - 0s 3ms/step - loss: 0.6773 - accuracy:  
0.6935 - val_loss: 0.6706 - val_accuracy: 0.5985  
Epoch 5/20  
39/39 [=====] - 0s 3ms/step - loss: 0.5921 - accuracy:  
0.7732 - val_loss: 0.5942 - val_accuracy: 0.6610  
Epoch 6/20  
39/39 [=====] - 0s 3ms/step - loss: 0.3715 - accuracy:  
0.9260 - val_loss: 0.4890 - val_accuracy: 0.7708  
Epoch 7/20  
39/39 [=====] - 0s 3ms/step - loss: 0.2125 - accuracy:  
0.9407 - val_loss: 0.5147 - val_accuracy: 0.7708  
Epoch 8/20  
39/39 [=====] - 0s 3ms/step - loss: 0.1348 - accuracy:  
0.9618 - val_loss: 0.4909 - val_accuracy: 0.7765
```

```
[53]: plt.plot(history.history['accuracy'], label='accuracy')  
    plt.plot(history.history['val_accuracy'], label='val_accuracy')  
    plt.legend()  
    plt.savefig('./Output/AccuracyPlot.png')  
    plt.show()
```



```
[54]: plt.plot(history.history['loss'], label='loss')
plt.plot(history.history['val_loss'], label='val_loss')
plt.legend()
plt.savefig('./Output/LossPlot.png')
plt.show()
```




```
[55]: def predict_sentiment(review):
    tw = tokenizer.texts_to_sequences([review])
    tw = pad_sequences(tw, maxlen=72)
    prediction = int(model.predict(tw).round().item())
    if prediction == 0:
        return "Negative"
    elif prediction == 1:
        return "Positive"
    else:
        return "Houston, we have a problem"
    print("Prediction Label: ", sentiment_label[1][prediction])

[56]: test_sentence_one = "I enjoyed my journey with this class, I hope to leverage_
    ↪NLP skills at work soon!"
    print("Sentence One Prediction: ", predict_sentiment(test_sentence_one))
    test_sentence_two = "I hated this class, I'll never use NLP and hope to never_
    ↪take touch this subject again!"
    print("Sentence Two Prediction: ", predict_sentiment(test_sentence_two))
```

```
Sentence One Prediction: Positive
Sentence Two Prediction: Negative
```

0.1 End