

# D213-AdvancedDataAnalyticsPA2-Jason's MacBook Pro

August 21, 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
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 2  $\mu$ s, sys: 1  $\mu$ s, total: 3  $\mu$ s  
Wall time: 3.1  $\mu$ s

```
[44]: # 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/jasonewilllis/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']

```

```

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

#           ,review,sentiment
#    1      0,So there is no way for me to plug it in here in the US unless I
↳go by a converter.,0
#    2      1,"Good case, Excellent value.",1
#    3      2,Great for the jawbone.,1
#    4      3,Tied to charger for conversations lasting more than 45 minutes.
↳MAJOR PROBLEMS!!,0
#    5      4,The mic is great.,1
#    6      5,I have to jiggle the plug to get it to line up right to get
↳decent volume.,0
```

```
[11]: # 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)
```

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

# Convert/Verify Sentiment Field to Int
df['sentiment'] = df['sentiment'].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    sentiment  2748 non-null    int64
dtypes: int64(1), object(1)
memory usage: 43.1+ KB
```

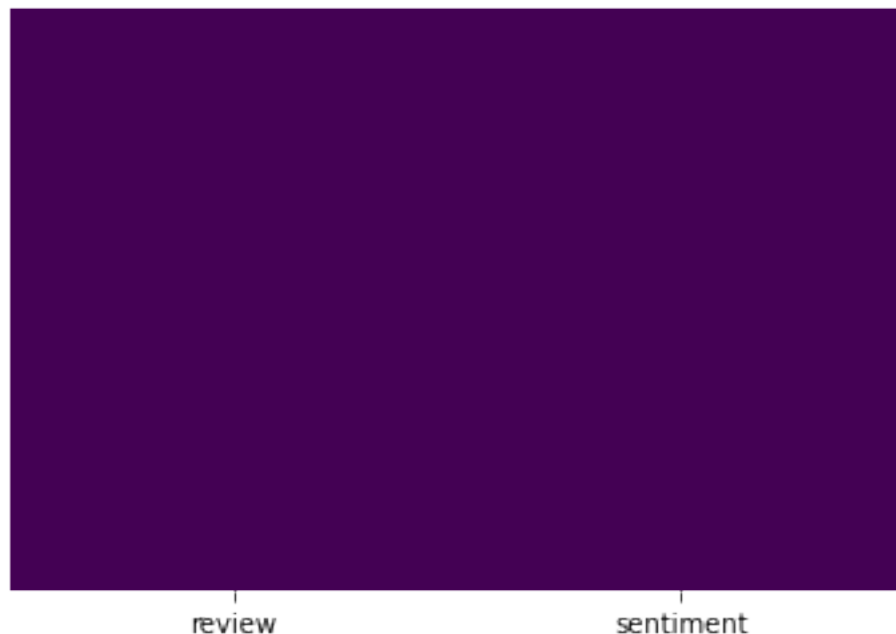
```
[13]: # Drop any null columns
df = df.dropna()

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

```
[13]: review      False
      sentiment  False
      dtype: bool
```

### 0.0.3 Check for Missing Values

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



```
[45]: 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'])))
#df.head(-5)
```

Longest Summary Review: 57

## Explore Data

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

```
[16]:
```

	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

```
[17]: # 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', 'sentiment'], 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   sentiment    2748 non-null   int64
dtypes: int64(1), object(1)
memory usage: 64.4+ KB
```

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

```
[18]:
```

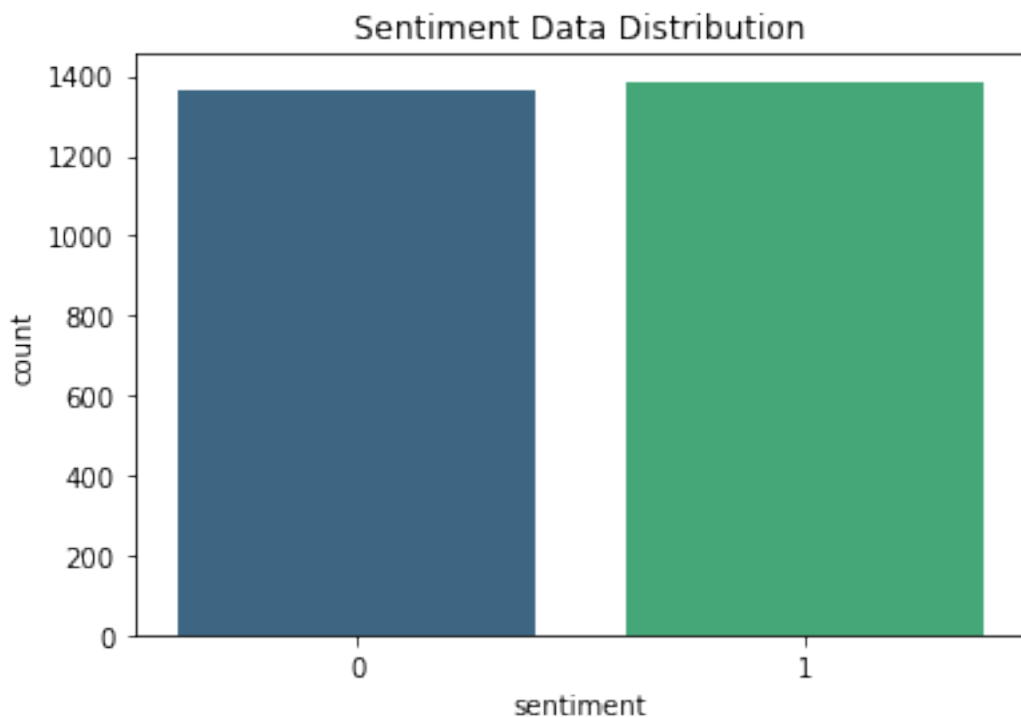
	review	sentiment
count	2748	2748.000000
unique	2719	NaN
top	great phone	NaN
freq	6	NaN

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

```
[19]: # Tally Review Field Counts
print("Percentage of Pos/Neg Reviews:\n", df['sentiment'].value_counts() /
      ↪len(df['sentiment']))
print("Totals:\n",df['sentiment'].value_counts()) # Notice pos/neg ~approx equal
```

```
Percentage of Pos/Neg Reviews:
1    0.504367
0    0.495633
Name: sentiment, dtype: float64
Totals:
1    1386
0    1362
Name: sentiment, dtype: int64
```

```
[20]: # View Data Distro
sns.countplot(data=df, x='sentiment', palette='viridis').set(title='Sentiment_
      ↪Data Distribution');
```



```
[21]: # 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
```

```
[22]: # 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', 'ä', '\x97', 'ê']
```

```
[23]: 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 or our sequences is: 1
The median length or our sequences is: 11.0
```



The maximum length of our sequences is: 1393

```
[24]: 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('wordcloud.png') # Save WordCloud as png
plt.show()
```



```
[25]: # Remove Stop Words
review_df = df.copy()
description_list = [] # Create empty list to store cleaned reviews
for description in review_df.review: # Loop through each review
    description = re.sub("[^a-zA-Z]", "", description) # Remove all
    ↳ non-alphabetical characters

# Convert to Lower Case
description.lower()

# Tokenize Each Review
description=nltk.word_tokenize(description)
```

```

# Perform Lemmatization on Each Review
lemma = nltk.WordNetLemmatizer()
description = [lemma.lemmatize(word) for word in description]

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

# description_list = []
# stopwords = stopwords

```

```

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

```

Max Review Length: 103

## 0.1 Notice the Vocab Size: 5383

```

[27]: # 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

```

[28]: df.columns

```

```

[28]: Index(['review', 'sentiment'], dtype='object')

```

```

[29]: # 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 0_
↳ index
list(word_count.items())[2015:2022] # Random Sample

```

Size of data vocab: 5384

```

[29]: [('blown', 2016),
      ('events', 2017),

```

```
( 'result', 2018),
( 'slightest', 2019),
( 'duet', 2020),
( 'doctor', 2021),
( 'extraordinary', 2022)]
```

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

```
[31]: # 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 = 50 # Max Length of Sentence
# trunc_type='post'
# padding_type='post'
```

```
Length of DataFrame: 2748
Length of Vocab Size: 5383
```

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

```
[32]: 11
```

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

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

```
[34]: 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, '0': 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, 'worth': 181, 'plot': 182, 'films': 183, 'us': 184, 'seen': 185, 'long': 186, 'years': 187, 'life': 188, 'want': 189, 'lot': 190, 'while': 191, 'quite': 192, 'nothing': 193, 'wonderful': 194, 'restaurant': 195, 'she': 196, 'happy': 197, 'always': 198, 'script': 199, 'highly': 200, 'found': 201, 'give': 202, 'anyone': 203, 'wasnt': 204, 'delicious': 205, 'times': 206, 'character': 207, 'watching': 208, 'bought': 209, 'absolutely': 210, 'loved': 211, 'car': 212, 'fine': 213, 'camera': 214, 'should': 215, 'worked': 216, 'easy': 217, 'around': 218, 'probably': 219, 'take': 220, 'another': 221, 'awful': 222, 'vegas': 223, 'comfortable': 224, 'went': 225, 'buy': 226, 'since': 227, 'item': 228, 'screen': 229, 'funny': 230, 'same': 231, 'awesome': 232, 'before': 233, 'horrible': 234, 'however': 235, 'charger': 236, 'impressed': 237, 'makes': 238, 'couldnt': 239, 'cool': 240, 'find': 241, 'big': 242, 'down': 243, 'music': 244, 'where': 245, 'thought': 246, 'stars': 247, 'those': 248, 'things': 249, 'totally': 250, 'scenes': 251, 'watch': 252, 'staff': 253, 'eat': 254, 'though': 255, 'last': 256, 'talk': 257, 'bluetooth': 258, 'end': 259, 'such': 260, 'job': 261, 'small': 262, 'fantastic': 263, 'slow': 264, 'night': 265, 'part': 266, 'come': 267, 'show': 268, 'cast': 269, 'actors': 270, 'must': 271, '5': 272, 'beautiful': 273, 'black': 274, 'kind': 275, 'cheap': 276, 'ordered': 277, 'family': 278, 'old': 279, 'stupid': 280, 'said': 281, 'day': 282, 'perfect': 283, 'thats': 284, 'sure': 285, 'performance': 286, 'actually': 287,

'reception': 288, 'avoid': 289, 'overall': 290, 'feel': 291, 'next': 292,  
'fresh': 293, 'chicken': 294, 'problems': 295, 'line': 296, 'problem': 297,  
'least': 298, 'working': 299, 'order': 300, 'tried': 301, 'between': 302,  
'done': 303, 'simply': 304, 'felt': 305, 'id': 306, 'bit': 307, 'sucks': 308,  
'try': 309, 'especially': 310, 'hard': 311, 'scene': 312, 'interesting': 313,  
'menu': 314, 'salad': 315, 'pizza': 316, 'each': 317, 'everyone': 318,  
'without': 319, 'hear': 320, 'charge': 321, 'calls': 322, 'looks': 323,  
'purchase': 324, 'gets': 325, 'expect': 326, 'fit': 327, 'fast': 328, 'cell':  
329, 'completely': 330, 'almost': 331, 'customer': 332, 'either': 333,  
'anything': 334, 'low': 335, 'ill': 336, 'away': 337, 'liked': 338, 'coming':  
339, 'man': 340, 'enjoyed': 341, 'writing': 342, 'worse': 343, 'special': 344,  
'taste': 345, 'wait': 346, 'steak': 347, 'left': 348, 'short': 349, 'clear':  
350, 'phones': 351, 'seriously': 352, 'different': 353, 'device': 354, 'using':  
355, 'white': 356, 'call': 357, 'year': 358, 'whole': 359, 'rather': 360,  
'bland': 361, 'through': 362, 'hour': 363, 'dialogue': 364, 'server': 365,  
'sushi': 366, 'flavor': 367, 'plug': 368, 'volume': 369, 'several': 370,  
'started': 371, 'design': 372, '3': 373, 'super': 374, 'play': 375, 'motorola':  
376, 'full': 377, 'may': 378, 'getting': 379, 'perfectly': 380, 'side': 381,  
'put': 382, 'incredible': 383, 'extremely': 384, 'tell': 385, 'return': 386,  
'disappointing': 387, 'looking': 388, 'having': 389, 'deal': 390, 'understand':  
391, 'unfortunately': 392, 'took': 393, 'enjoy': 394, 'believe': 395, 'fact':  
396, 'art': 397, 'saw': 398, 'buffet': 399, 'feeling': 400, 'watched': 401,  
'burger': 402, 'yet': 403, 'three': 404, 'need': 405, 'received': 406, 'huge':  
407, 'light': 408, 'fits': 409, 'during': 410, 'hours': 411, 'less': 412,  
'once': 413, 'stay': 414, 'theres': 415, 'certainly': 416, 'mess': 417,  
'disappointment': 418, 'care': 419, 'hot': 420, 'crap': 421, 'sucked': 422,  
'barely': 423, 'truly': 424, 'mediocre': 425, 'soon': 426, 'kids': 427,  
'ending': 428, 'atmosphere': 429, 'tasty': 430, 'meal': 431, 'fun': 432,  
'wasted': 433, 'original': 434, 'days': 435, 'months': 436, 'recommended': 437,  
'kept': 438, 'picture': 439, 'home': 440, 'high': 441, 'strong': 442, 'pleased':  
443, 'area': 444, 'gave': 445, 'wrong': 446, 'none': 447, 'own': 448, 'friends':  
449, 'together': 450, 'effects': 451, 'easily': 452, 'inside': 453,  
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```

```
[35]: # 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]
```

```
[36]: 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  27  49  5
60 118 12 73  6 368  7 11 67 11  1 184 640  3
77  62  4 2215]
```

```
[37]: # X = np.array(description_list) # Shape = (1, )
# print("X Shape: ", X.shape)
# y = review_df.review.values # Shape = (2748, )
# print("y Shape: ", y.shape)

# X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.20,
↳ random_state=73, stratify=y)

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

# X_train = pad_sequences(X_train, maxlen=max_review_length)
```

```
# X_test = pad_sequences(X_test, maxlen=max_review_length)

# print("Training Data Shape: ", X_train.shape)
# print("Testing Data Shape: ", X_test.shape)
```

```
[38]: X = padded_sequence
y = np.array(df[['sentiment']])
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()
```

```
[39]: 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, 200)
y Shape: (2748, 1)
X_train Shape: (1758, 200)
X_test Shape: (550, 200)
y_train Shape: (1758, 1)
y_test Shape: (550, 1)
```

```
[40]: #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)

```

```

-----
AttributeError                                Traceback (most recent call last)
/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_35703/1995757612.py
    ↪in <module>
        3
        4 #Fit Commentary Dict Based on Frequency
----> 5 keras_token.fit_on_texts(X_train)
        6
        7 word_count = keras_token.word_index # Create Dict Var

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
    ↪py in fit_on_texts(self, texts)
        223                 self.filters,
        224                 self.lower,
--> 225                 self.split)

        226         for w in seq:
        227             if w in self.word_counts:

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
    ↪py in text_to_word_sequence(text, filters, lower, split)
        41         """
        42         if lower:
----> 43             text = text.lower()
        44
        45         if sys.version_info < (3,):

AttributeError: 'numpy.ndarray' object has no attribute 'lower'

```

```

[ ]: # 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, 200)
X_test Shape: (550, 200)

```

X\_Validation Shape: (440, 200)

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

```
-----
AttributeError                                Traceback (most recent call last)
/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_21584/2663434068.py
↳ in <module>
----> 1 sequences_train = tokenizer.texts_to_sequences(X_train)
      2 sequences_train

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
↳ py in texts_to_sequences(self, texts)
    279         A list of sequences.
    280         """
--> 281         return list(self.texts_to_sequences_generator(texts))
    282
    283     def texts_to_sequences_generator(self, texts):

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
↳ py in texts_to_sequences_generator(self, texts)
    310             self.filters,
    311             self.lower,
--> 312             self.split)

    313         vect = []
    314         for w in seq:

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
↳ py in text_to_word_sequence(text, filters, lower, split)
    41         """
    42         if lower:
--> 43             text = text.lower()
    44
    45         if sys.version_info < (3,):

AttributeError: 'numpy.ndarray' object has no attribute 'lower'
```

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

# Test
sequences_test = tokenizer.texts_to_sequences(X_test)
```

```
padded_test = 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]
```

```
-----
AttributeError                                Traceback (most recent call last)
/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_21584/3444376328.py
    ↪in <module>
        1 # Train  --48:00
----> 2 sequences_train = tokenizer.texts_to_sequences(X_train)
        3 padded_train = pad_sequences(sequences_train, maxlen=max_length,
    ↪padding=padding_type, truncating=trunc_type)
        4
        5 # Test

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
    ↪py in texts_to_sequences(self, texts)
        279         A list of sequences.
        280         """
--> 281         return list(self.texts_to_sequences_generator(texts))
        282
        283     def texts_to_sequences_generator(self, texts):

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
    ↪py in texts_to_sequences_generator(self, texts)
        310             self.filters,
        311             self.lower,
--> 312             self.split)

        313         vect = []
        314         for w in seq:

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/text.
    ↪py in text_to_word_sequence(text, filters, lower, split)
        41         """
        42         if lower:
----> 43             text = text.lower()
        44
        45         if sys.version_info < (3,):

AttributeError: 'numpy.ndarray' object has no attribute 'lower'
```



```
[ ]: # Export padded train/test data
pd.DataFrame(X_train).to_csv('X_training_df.csv')
pd.DataFrame(X_test).to_csv('X_testing_df.csv')
pd.DataFrame(y_train).to_csv('y_training_df.csv')
pd.DataFrame(y_test).to_csv('y_testing_df.csv')
pd.DataFrame(X_validation).to_csv('X_validation_df.csv')
pd.DataFrame(y_validation).to_csv('y_validation_df.csv')
```

```
[ ]: # B4 - Sentiment Analysis
activation = 'softmax'
loss = '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(2, activation=activation)
])

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

```
-----
NameError                                Traceback (most recent call last)
/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_21584/3312107923.py
↪in <module>
    10
    11 model = tf.keras.Sequential([
---> 12     tf.keras.layers.Embedding(vocab_size, embedding_dim,
    ↪input_length=max_length),
    13     tf.keras.layers.GlobalAveragePooling1D(),
    14     tf.keras.layers.Dense(100, activation='relu'),

NameError: name 'max_length' is not defined
```

```
[ ]: embedding_vector_length = 32
model = Sequential()
model.add(Embedding(vocab_size, embedding_vector_length, input_length=200))
model.add(SpatialDropout1D(0.25))
```

```

model.add(LSTM(50, dropout=0.5, recurrent_dropout=0.5))
model.add(Dropout(0.2))
model.add(Dense(1, activation='sigmoid'))
model.compile(loss='binary_crossentropy', optimizer='adam',
metrics=['accuracy'])
model.summary()

```

Model: "sequential"

Layer (type)	Output Shape	Param #
embedding (Embedding)	(None, 200, 32)	480000
spatial_dropout1d (SpatialDropout1D)	(None, 200, 32)	0
lstm (LSTM)	(None, 50)	16600
dropout (Dropout)	(None, 50)	0
dense (Dense)	(None, 1)	51

```

=====
Total params: 496,651
Trainable params: 496,651
Non-trainable params: 0
=====

```

```

2022-08-20 19:35:32.052342: 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.

```

```

[ ]: history = model.fit(padded_sequence, sentiment_label[0], epochs=5,
verbose=1, validation_split=0.2, batch_size=32)

```

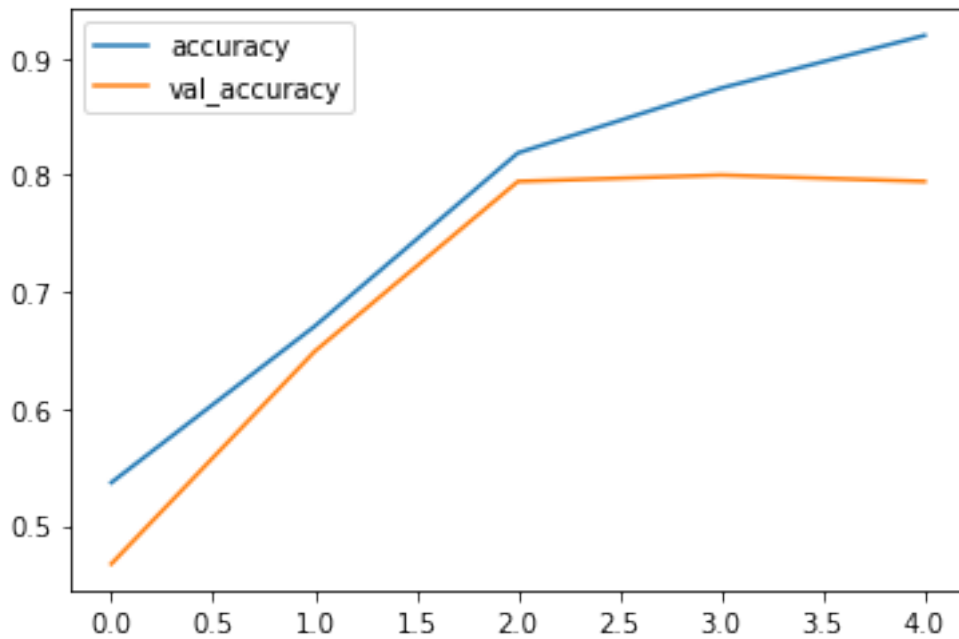
```

Epoch 1/5
69/69 [=====] - 11s 135ms/step - loss: 0.6907 -
accuracy: 0.5369 - val_loss: 0.6892 - val_accuracy: 0.4673
Epoch 2/5
69/69 [=====] - 9s 129ms/step - loss: 0.6355 -
accuracy: 0.6706 - val_loss: 0.6014 - val_accuracy: 0.6491
Epoch 3/5
69/69 [=====] - 9s 130ms/step - loss: 0.4531 -
accuracy: 0.8189 - val_loss: 0.5007 - val_accuracy: 0.7945
Epoch 4/5

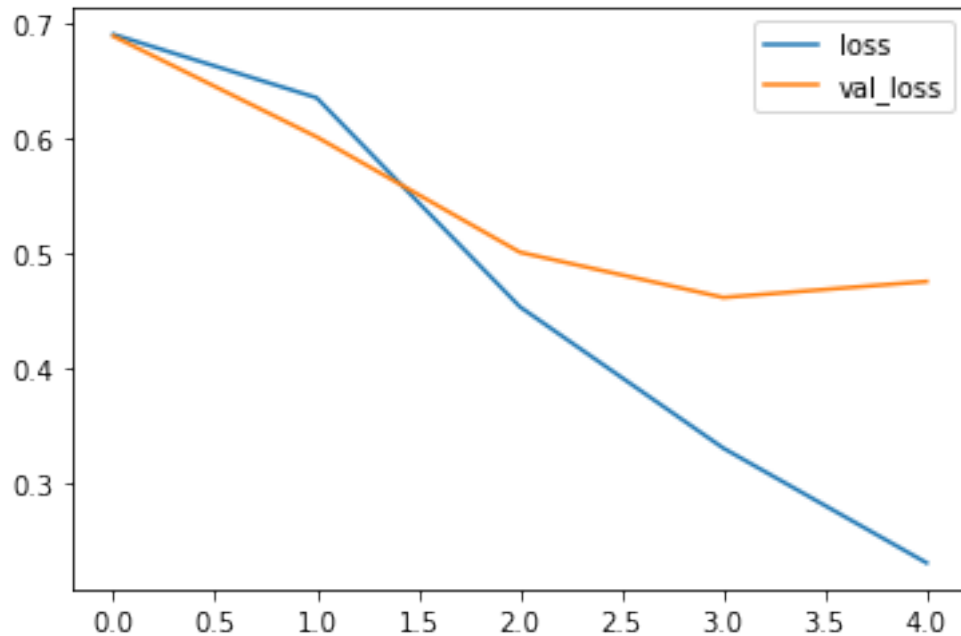
```

```
69/69 [=====] - 9s 135ms/step - loss: 0.3299 -  
accuracy: 0.8744 - val_loss: 0.4613 - val_accuracy: 0.8000  
Epoch 5/5  
69/69 [=====] - 9s 132ms/step - loss: 0.2298 -  
accuracy: 0.9195 - val_loss: 0.4753 - val_accuracy: 0.7945
```

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



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



```
[41]: def predict_sentiment(review):
    tw = tokenizer.texts_to_sequences([review])
    tw = pad_sequences(tw, maxlen=200)
    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])
```

```
[42]: 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))
```

```
-----
TypeError                                Traceback (most recent call last)
/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_35703/1021997524.py
    ↪in <module>
      1 test_sentence_one = "I enjoyed my journey with this class, I hope to
    ↪leverage NLP skills at work soon!"
```

```

----> 2 print("Sentence One Prediction: ", predict_sentiment(test_sentence_one)
      3 test_sentence_two = "I hated this class, I'll never use NLP and hope to
      ↪ never take touch this subject again!"
      4 print("Sentence Two Prediction: ", predict_sentiment(test_sentence_two)

/var/folders/54/7y7y409s11zft4znzv7rpy700000gn/T/ipykernel_35703/1570164873.py
↪ in predict_sentiment(review)
      1 def predict_sentiment(review):
      2     tw = tokenizer.texts_to_sequences([review])
----> 3     tw = pad_sequences(tw, maxlen=200)
      4     prediction = int(model.predict(tw).round().item())
      5     if prediction == 0:

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras/preprocessing/
↪ sequence.py in pad_sequences(sequences, maxlen, dtype, padding, truncating,
↪ value)
      152     return sequence.pad_sequences(
      153         sequences, maxlen=maxlen, dtype=dtype,
--> 154         padding=padding, truncating=truncating, value=value)

      155
      156 keras_export(

~/opt/anaconda3/envs/py37/lib/python3.7/site-packages/keras_preprocessing/
↪ sequence.py in pad_sequences(sequences, maxlen, dtype, padding, truncating,
↪ value)
      96
      97     # check `trunc` has expected shape
---> 98     trunc = np.asarray(trunc, dtype=dtype)
      99     if trunc.shape[1:] != sample_shape:
     100         raise ValueError('Shape of sample %s of sequence at positio:
↪ %s '

TypeError: int() argument must be a string, a bytes-like object or a number, not
↪ 'NoneType'

```

## 0.2 End