

```
Number of Words in each message: 28
Number of Words in each message: 46
Number of Words in each message: 37
Number of Words in each message: 37
Number of Words in each message: 31
Number of Words in each message: 37
Number of Words in each message: 37
In [15]: nltk.download('wordnet')
    nltk.download('stopwords')
    from nltk.stem import Snowballstemmer
    snowball stemmer - Snowballstemmer('english')
    import ast
                         ###Converting all to lowercase emma
                         twitter_lower=[item.lower() for item in df['full_text']]
import string
                          ###removing punctuations
table = str.maketrans('','', string.punctuation)
stripped = [item.translate(table) for item in twitter_lower]
                          ###removing digits
words = [word for word in stripped if word.isalpha()]
                          [nltk_data] Downloading package wordnet to
[nltk data] C:\Users\Wachiket\AppData\Roaming\nltk_data...
[nltk_data] Package wordnet is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\Wachiket\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
In [21]: # ####removing stopwords
# from nitk.corpus import stopwords
# stop words = set(stopwords.words('english'))
# ##removing unwanted words like author name, chapter and volume
# stop_words.update(['@'])
# words_ = [w for w in words if not w in stop_words]
                          ###Word Lemmatization
wordnet_lemmatizer - WordNetLemmatizer()
lemmatized_word - [wordnet_lemmatizer.lemmatize(word) for word in df['full_text']]
print (lemmatized_word)
                        IOPub data rate exceeded.
The notebook server will temporarily stop sending output to the client in order to avoid crashing it.
To change this limit, set the config variable "--hotebookkpp, jopub_data_rate_limit."
                          Current values:
NotebookApp.iopub_data_rate_limit=1000000.0 (bytes/sec)
NotebookApp.rate_limit_window=3.0 (secs)
In [22]: #Moby Dick Sentiment Analysis
samples = df['full_text']#stemmed_word
                         x = []
y = []
                          for item in samples:
                                   blob = TextBlob(item)
current = blob.sentiment
                                   print(current)
                                    for value in current:
   polarity = blob.sentiment.polarity
   x.append(polarity)
                                               subject = blob.sentiment.subjectivity
y.append(subject)
                        Sentiment(polarity-0.2, subjectivity-0.3)
Sentiment(polarity-0.2, subjectivity-0.8)
Sentiment(polarity-0.4, subjectivity-0.8)
Sentiment(polarity-0.4, subjectivity-0.7)
Sentiment(polarity-0.5, subjectivity-0.7)
Sentiment(polarity-0.8, subjectivity-0.7)
Sentiment(polarity-0.8, subjectivity-0.7)
Sentiment(polarity-0.8, subjectivity-0.7)
Sentiment(polarity-0.8, subjectivity-0.7)
Sentiment(polarity-0.4416066060666666, subjectivity-0.7)
Sentiment(polarity-0.44160660606666666666666667)
Sentiment(polarity-0.8, subjectivity-0.8)
Sentiment(polarity-0.8, subjectivity-0.5)
Sentiment(polarity-0.8, subjectivity-0.8)
In [23]: #Moby Dick Sentime
                          import matplotlib.pyplot as plt
%matplotlib inline
                        plt.scatter(x,y)
plt.xlabel("Polarity")
plt.ylabel("Subjectivity")
plt.ylabel("Subjectivity")
plt.title("Sentiment Analysis of Twitter Comments Regarding the 2019 Australian Election")
plt.show()
                              Sentiment Analysis of Twitter Comments Regarding the 2019 Australian Election
                                          ₹ 0.6
                                              0.2
                                                                                                                        P ...
                                                        -1.00 -0.75 -0.50 -0.25 0.00 0.25 0.50 0.75 1.00
Polarity
In [24]: #Moby Dick Sentiment (continued)
label_one = 'Positive', 'Negative'
                         size_one = 0
size_two = 0
                          for x values in x:
                          #Positive Polarity
if (x_values > 0 and x_values <= 1):</pre>
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size_one += 1
                                    #Negative Polarity
elif (x_values < 0 and x_values >= -1):
    size_two += 1
                         sizes_polarity = [size_one, size_two]
                         figure1, ax1 = plt.subplots()
ax1.pie(sizes_polarity, labels = label_one, autopct='%1.1f%%')
                         ax1.axis("equal")
                        plt.title("Polarity")
Out[24]: Text(0.5, 1.0, 'Polarity')
In [25]: #positive, negative, and neutral sentiment
#|pip install vaderSentiment
import numpy as
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
analyser - SentimentIntensityAnalyzer()
 In [26]: #Moby Dick Sentiment (continued)
                         label_two - 'Factual Information', 'Personal Opinion'
                          size_one = 0
size_two = 0
                          for y_values in y:
                                    #Tending Towards Personal Opinion
if (y_values >= 0.5 and y_values <= 1):
    size_one += 1</pre>
                                    #Tending Towards Factual Information
elif (y_values >= 0 and y_values <= 0.5):
    size_two += 1</pre>
                         sizes_subject = [size_one, size_two]
                         figure1, ax1 = plt.subplots()
ax1.pie(sizes_subject, labels = label_two, autopct='%1.1f%%')
                          ax1.axis("equal")
                         plt.title("Subjectivity")
Out[26]: Text(0.5, 1.0, 'Subjectivity')
                                                                            Subjectivity
In [36]: ###Wordcloud for Moby Dick
from wordcloud import Wordcloud, STOPWORDS,ImageColorGenerator
import matplotlib.pyplot as plt
import pandas as pd
from PIL import Image
import numpy as np
from io import BytesIO
import requests
comment_=''
                           for val in df['full_text'][0:1000]:
                                     # typecaste each val to string
val = str(val)
                                     # split the vo
                                    tokens = val.split()
tokens_=[w.replace("'", "") for w in tokens]
                                      # Converts each token into Lowercase
                                     for i in range(len(tokens_)):
    comment_ += " ".join(tokens_)+" "
                       conservative coalition claims spark

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In []: