ASSIGNMENT-11-Text Mining-01-ELON MUSK

1.Perform sentimental analysis on the Elon-musk tweets (Exlon-musk.csv)

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In [4]: 1 !pip install spacy
        Collecting spacy
          Downloading spacy-3.4.2-cp39-cp39-win_amd64.whl (11.9 MB)
        Requirement already satisfied: requests<3.0.0,>=2.13.0 in c:\users\admin\anaconda3\lib\site-packages (from spacy) (2.26.0)
        Collecting cymem<2.1.0,>=2.0.2
          Downloading cymem-2.0.7-cp39-cp39-win amd64.whl (30 kB)
        Collecting typer<0.5.0,>=0.3.0
          Downloading typer-0.4.2-py3-none-any.whl (27 kB)
        Requirement already satisfied: jinja2 in c:\users\admin\anaconda3\lib\site-packages (from spacy) (2.11.3)
        Collecting spacy-loggers<2.0.0,>=1.0.0
          Downloading spacy_loggers-1.0.3-py3-none-any.whl (9.3 kB)
        Collecting catalogue<2.1.0,>=2.0.6
          Downloading catalogue-2.0.8-py3-none-any.whl (17 kB)
        Collecting langcodes<4.0.0,>=3.2.0
          Downloading langcodes-3.3.0-py3-none-any.whl (181 kB)
        Collecting preshed<3.1.0,>=3.0.2
          Downloading preshed-3.0.8-cp39-cp39-win_amd64.whl (96 kB)
        Collecting srsly<3.0.0,>=2.4.3
          Downloading srsly-2.4.5-cp39-cp39-win_amd64.whl (481 kB)
        Collecting spacy-legacy<3.1.0,>=3.0.10
In [7]: 1 !pip install wordcloud
        Collecting wordcloud
          Downloading wordcloud-1.8.2.2-cp39-cp39-win_amd64.whl (153 kB)
        Requirement already satisfied: pillow in c:\users\admin\anaconda3\lib\site-packages (from wordcloud) (8.4.0)
        Requirement already satisfied: matplotlib in c:\users\admin\anaconda3\lib\site-packages (from wordcloud) (3.4.3)
        Requirement already satisfied: numpy>=1.6.1 in c:\users\admin\anaconda3\lib\site-packages (from wordcloud) (1.20.3)
        Requirement already satisfied: cycler>=0.10 in c:\users\admin\anaconda3\lib\site-packages (from matplotlib->wordcloud) (0.10.0)
        Requirement already satisfied: python-dateutil>=2.7 in c:\users\admin\anaconda3\lib\site-packages (from matplotlib->wordcloud)
        (2.8.2)
        Requirement already satisfied: pyparsing>=2.2.1 in c:\users\admin\anaconda3\lib\site-packages (from matplotlib->wordcloud) (3.
        0.4)
        Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\admin\anaconda3\lib\site-packages (from matplotlib->wordcloud) (1.
        Requirement already satisfied: six in c:\users\admin\anaconda3\lib\site-packages (from cycler>=0.10->matplotlib->wordcloud) (1.
        16.0)
        Installing collected packages: wordcloud
        Successfully installed wordcloud-1.8.2.2
In [8]:
         1 import pandas as pd
         2 import numpy as np
         3 import matplotlib.pyplot as plt
         4 import string
         5 import spacy
            from matplotlib.pyplot import imread
         8 from wordcloud import WordCloud, STOPWORDS
            %matplotlib inline
```

```
In [9]:
            1 # Load the dataset
               tweets=pd.read_csv('Elon_musk.csv',encoding='latin-1')
               tweets.drop(['Unnamed: 0'],inplace=True,axis=1)
            4 tweets
Out[9]:
                                                             Text
              0
                                            @kunalb11 I m an alien
                  @ID AA Carmack Ray tracing on Cyberpunk with H...
              1
              2
                                 @ioerogan @Spotify Great interview!
                                   @gtera27 Doge is underestimated
                      @teslacn Congratulations Tesla China for amazi...
           1994
                         @flcnhvy True, it sounds so surreal, but the n...
           1995
                    @PPathole Make sure to read ur terms & amp; con...
           1996
                           @TeslaGong @PPathole Samwise Gamgee
                 @PPathole Altho Dumb and Dumber is <U+0001F525...
           1997
           1998
                                         Progress update August 28
          1999 rows × 1 columns
```

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Text Preprocessing
In [10]:
          1 tweets=[Text.strip() for Text in tweets.Text] #remove both the leading and the trailing characters
             tweets=[Text for Text in tweets if Text] #remove empty string, because they are considered in python as False
            tweets[0:10]
Out[10]: ['@kunalb11 I\x92m an alien',
           @ID_AA_Carmack Ray tracing on Cyberpunk with HDR is next-level. Have you tried it?',
           @joerogan @Spotify Great interview!',
          '@gtera27 Doge is underestimated',
          '@teslacn Congratulations Tesla China for amazing execution last year. Now on to the next for even more!!',
          'Happy New Year of the Ox! https://t.co/9WFKMYu2oj', (https://t.co/9WFKMYu2oj',)
          'Frodo was the underdoge,\nAll thought he would fail,\nHimself most of all. https://t.co/zGxJFDzzrM', (https://t.co/zGxJFDzzr
          '@OwenSparks_ @flcnhvy @anonyx10 Haha thanks :)',
          '@flcnhvy @anonyx10 Indeed! Tweets definitely do not represent real-world time allocation.',
          'The most entertaining outcome is the most likely']
In [11]:
          1 # Joining the list into one string/text
            tweets_text=' '.join(tweets)
          3 tweets text
Out[11]: '@kunalb11 I\x92m an alien @ID_AA_Carmack Ray tracing on Cyberpunk with HDR is next-level. Have you tried it? @joerogan @Spot
         ify Great interview! @gtera27 Doge is underestimated @teslacn Congratulations Tesla China for amazing execution last year. No
         w on to the next for even more!! Happy New Year of the Ox! https://t.co/9WFKMYu2oj (https://t.co/9WFKMYu2oj) Frodo was the un
         derdoge,\nAll thought he would fail,\nHimself most of all. https://t.co/zGxJFDzzrM (https://t.co/zGxJFDzzrM) @OwenSparks_ @fl
         cnhvy @anonyx10 Haha thanks :) @flcnhvy @anonyx10 Indeed! Tweets definitely do not represent real-world time allocation. The
         most entertaining outcome is the most likely @GiveDirectly Just sent some Just agree to do Clubhouse with @kanyewest https://
         t.co/3rWE9uHSTS (https://t.co/3rWE9uHSTS) @geoffkeighley @UnrealEngine It\x92s getting real Bought some Dogecoin for lil X, s
         o he can be a toddler hodler @JoshManMode He definitely has issues, but the sentencing seems a bit high @freewalletorg Thanks
         for fixing @freewalletorg Please unlock my account @AstroJordy <U+0001F923><U+0001F923> This is true power haha https://t.co/
         Fc9uhQSd70 (https://t.co/Fc9uhQSd70) @freewalletorg Any crypto wallet that won\x92t give you your private keys should be avoi
         ded at all costs @freewalletorg Your app sucks RT @SpaceX: NASA has selected Falcon Heavy to launch the first two elements of
         the lunar Gateway together on one mission! https://t.co/3pWt (https://t.co/3pWt) @ajtourville Yes @BLKMDL3 @RationalEtienne @
         Adamklotz_ Once we can predict cash flow reasonably well, Starlink will IPO @RationalEtienne @Adamklotz_ Starlink is a stagge
         @RationalEtienne @Adamklotz_ SpaceX needs to pass through a deep chasm of negative cash flow over the next year or\x85 http
         s://t.co/7J1c92hdjl (https://t.co/7J1c92hdjl) @ID_AA_Carmack Lowest cost per ton of carbon sequestered, net of value of any p
         roduct made. \n\nMust be scalable to g\x85 https://t.co/XMyI7qWSgw (https://t.co/XMyI7qWSgw) @Adamklotz_ It\x92s meant to be
         the same price in all countries. Only difference should be taxes & shipping. @tobyliiiiiii This is intended for Earth,
         but there may be some ideas that apply to Mars too @CryptoShrikar @CoinDesk @Tesla @Dan_Z_Palmer <U+0001F923>\timesU+0001F923> XPr
 In [ ]: 1
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localhost:8888/notebooks/Assignment-11-Text Mining -01-Elon Music.ipynb