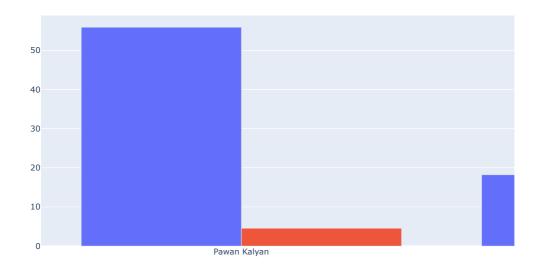
```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from textblob import TextBlob
from wordcloud import WordCloud
import.plotly.graph_objects.as.go
import plotly.express as px
from google.colab import files
files=files.upload()
     Choose Files pawan kalyan.csv
     • pawan kalyan.csv(text/csv) - 272345 bytes, last modified: 3/26/2023 - 100% done
     Saving pawan kalyan.csv to pawan kalyan.csv
from google.colab import files
files=files.upload()
     Choose Files jagan1.csv
      jagan1.csv(text/csv) - 278126 bytes, last modified: 3/26/2023 - 100% done
     Saving jagan1.csv to jagan1.csv
jagan_reviews = pd.read_csv("jagan1.csv",encoding=('ISO-8859-1'),low_memory=False)
pawan_reviews = pd.read_csv("pawan kalyan.csv")
print(jagan reviews.head())
print(pawan_reviews.head())
                People
                                                                     Review \
            manny_rosen
                          @amma please tell us how many shares the Crim...
              osi_abdul
                          https://t.co/atM98CpqF7 Like, comment, RT #P...
     1
                          Your AG Barr is as useless & amp; corrupt as y...
                Patsyrw
     3
        sevedebrahimi m
                          Mr. Jagan! Wake Up! Most of the comments bel...
     4
          James09254677
                         After 4 years you think you would have figure...
       Unnamed: 2 Unnamed: 3
     0
              NaN
                         NaN
     1
              NaN
                         NaN
     2
              NaN
     3
              NaN
                         NaN
              NaN
     4
              People
                                                                  Review
                      @Pawan Kalyan And we'll find out who won in 20...
     0
        MarkHodder3
          K87327961G
     1
                      @Pawan Kalyan Your Democratic Nazi Party canno...
     2
            OldlaceA
                                        @Pawan Kalyan So did Lying Barr
     3
          penblogger
                      @Pawan Kalyan It's clear you didnt compose thi...
     4 Aquarian0264
                         @Pawan Kalyan I will vote in person thank you.
textblob1 = TextBlob(jagan_reviews["Review"][10])
print("jagan :",textblob1.sentiment)
textblob2 = TextBlob(pawan_reviews["Review"][500])
print("pawan :",textblob2.sentiment)
     jagan : Sentiment(polarity=0.15, subjectivity=0.3125)
     pawan : Sentiment(polarity=0.6, subjectivity=0.9)
def find_pol(review):
return TextBlob(review).sentiment.polarity
jagan_reviews["Sentiment Polarity"] = jagan_reviews["Review"].apply(find_pol)
print(jagan_reviews.tail())
pawan_reviews["Sentiment Polarity"] = pawan_reviews["Review"].apply(find_pol)
print(pawan_reviews.tail())
                   People
                                                                        Review \
                   4diva63 @realysragan For the 1/100 time, absentee ball...
     2783
     2784
                  hidge826 @realysragan If you re so scared of losing, re...
     2785
              SpencerRossy @realysragan I rarely get involved with foreig...
     2786 ScoobyMcpherson @realysragan This is the moment when Jagan beg...
     2787
                   bjklinz
                                       @realysragan I m sorry, ysr. No. #POTUS
          Unnamed: 2 Unnamed: 3 Sentiment Polarity
     2783
                 NaN
                            NaN
                                               0.000
     2784
                 NaN
                            NaN
                                               0.000
     2785
                            NaN
                                               0.225
                 NaN
     2786
                 NaN
                            NaN
                                               0.000
     2787
                            NaN
                                              -0.500
                 NaN
```

```
People
     2535
              meryn1977
                          @Pawan Kalyan You'll just try to calm those wa...
                          @Pawan Kalyan 96 days 96 dias #VotePawan Kalya...
     2536
            BSNelson114
                          @Pawan Kalyan YOU THINK YOU CAN DO THAT??? YOU...
     2537
               KenCapel
     2538
             LeslyeHale
                          @Pawan Kalyan Trump wants our children back at...
                          @Pawan Kalyan ... and I know, because it's muc...
     2539
               rerickre
            Sentiment Polarity
     2535
                            0.15
     2536
                            a aa
     2537
                            0.00
     2538
                            0.10
     2539
                            0.20
jagan_reviews["Expression Label"] = np.where(jagan_reviews["Sentiment Polarity"]>0, "positive", "negative")
jagan_reviews["Expression Label"][jagan_reviews["Sentiment Polarity"]==0]="Neutral"
print(jagan_reviews.tail())
pawan_reviews["Expression Label"] = np.where(pawan_reviews["Sentiment Polarity"]>0, "positive", "negative")
pawan_reviews["Expression Label"][jagan_reviews["Sentiment Polarity"]==0]="Neutral"
print(pawan reviews.tail())
                     People
                                                                               Review \
     2783
                               @realvsragan For the 1/100 time, absentee ball...
                     4diva63
     2784
                              @realysragan If you re so scared of losing, re...
                    hidge826
     2785
               SpencerRossy
                               @realysragan I rarely get involved with foreig...
     2786
            ScoobyMcpherson
                               @realysragan This is the moment when Jagan beg..
     2787
                     bjklinz
                                          @realysragan I m sorry, ysr. No. #POTUS
           Unnamed: 2 Unnamed: 3
                                    Sentiment Polarity Expression Label
     2783
                   NaN
                               NaN
                                                   0.000
                                                                    Neutral
     2784
                   NaN
                               NaN
                                                   0.000
                                                                    Neutral
     2785
                   NaN
                               NaN
                                                   0.225
                                                                   positive
     2786
                   NaN
                               NaN
                                                   0.000
                                                                    Neutral
                               NaN
                                                  -0.500
     2787
                   NaN
                                                                   negative
                  People
                                                                           Review \
     2535
              meryn1977
                          @Pawan Kalyan You'll just try to calm those wa...
     2536
            BSNelson114
                          @Pawan Kalyan 96 days 96 dias #VotePawan Kalya...
     2537
               KenCapel
                          @Pawan Kalyan YOU THINK YOU CAN DO THAT??? YOU...
                          @Pawan Kalyan Trump wants our children back at...
     2538
             LeslyeHale
               rerickre @Pawan Kalyan ... and I know, because it's muc...
     2539
            Sentiment Polarity Expression Label
     2535
                            0.15
                                           Neutral
     2536
                            0.00
                                           Neutral
     2537
                            9.99
                                          negative
     2538
                            0.10
                                           Neutral
     2539
                            0.20
                                          positive
      <ipython-input-15-c3441a01f83a>:2: SettingWithCopyWarning:
     A value is trying to be set on a copy of a slice from a DataFrame
     See the caveats in the documentation: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus">https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus</a>
        jagan reviews["Expression Label"][jagan reviews["Sentiment Polarity"]==0]="Neutral"
      <ipython-input-15-c3441a01f83a>:5: SettingWithCopyWarning:
     A value is trying to be set on a copy of a slice from a DataFrame
     See the caveats in the documentation: <a href="https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus">https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus</a> pawan_reviews["Expression Label"][jagan_reviews["Sentiment Polarity"]==0]="Neutral"
reviews1 = jagan_reviews[jagan_reviews['Sentiment Polarity'] == 0.0000]
cond1=jagan reviews['Sentiment Polarity'].isin(reviews1['Sentiment Polarity'])
jagan_reviews.drop(jagan_reviews[cond1].index, inplace = True)
print(jagan_reviews.shape)
reviews2 = pawan_reviews[pawan_reviews['Sentiment Polarity'] == 0.0000]
print(reviews2.shape)
cond2=pawan reviews['Sentiment Polarity'].isin(reviews1['Sentiment Polarity'])
pawan_reviews.drop(pawan_reviews[cond2].index, inplace = True)
print(pawan_reviews.shape)
      (1453, 6)
      (1335, 6)
      (1509, 4)
      (1031, 4)
np.random.seed(10)
remove n = 324
drop_indices = np.random.choice(jagan_reviews.index, remove_n, replace=False)
df_subset_jagan = jagan_reviews.drop(drop_indices)
print(df_subset_jagan.shape)
      (1011, 6)
```

fig.show()

```
np.random.seed(10)
remove n = 31
drop_indices = np.random.choice(pawan_reviews.index, remove_n, replace=False)
df subset pawan = pawan reviews.drop(drop indices)
print(df_subset_pawan.shape)
     (1000, 4)
count_1 = df_subset_jagan.groupby('Expression Label').count()
print(count_1)
negative_per1 = (count_1['Sentiment Polarity'][0]/1000)*10
positive_per1 = (count_1['Sentiment Polarity'][1]/1000)*100
count_2 = df_subset_pawan.groupby('Expression Label').count()
print(count 2)
negative_per2 = (count_2['Sentiment Polarity'][0]/1000)*100
positive_per2 = (count_2['Sentiment Polarity'][1]/1000)*100
Politicians = ['Pawan Kalyan', 'YSR Jagan']
lis_pos = [positive_per1, positive_per2]
lis_neg = [negative_per1, negative_per2]
                                  Review Unnamed: 2 Unnamed: 3 Sentiment Polarity
                         People
     Expression Label
     negative
                             452
                                      452
                                                     0
                                                                                       452
     positive
                             559
                                      559
                                                     0
                                                                                       559
                         People Review Sentiment Polarity
     Expression Label
     Neutral
                            520
                                     520
                                                           520
     negative
                                                           182
                            182
                                     182
     positive
                                                           298
                            298
                                     298
fig = go.Figure(data=[
 go.Bar(name='Positive', x=Politicians, y=lis_pos),
go.Bar(name='Negative', x=Politicians, y=lis_neg)
])
# Change the bar mode
fig.update_layout(barmode='group')
```



✓ 0s completed at 15:54

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