

YOUTUBE SENTIMENT ANALYSIS

May 22, 2023

```
[1]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

```
[2]: comments = pd.read_csv('D:\YoutubeData.csv' , error_bad_lines=False)
```

C:\Users\HP\AppData\Local\Temp\ipykernel_11960\384184408.py:1: FutureWarning:
The error_bad_lines argument has been deprecated and will be removed in a future
version. Use on_bad_lines in the future.

```
comments = pd.read_csv('D:\YoutubeData.csv' , error_bad_lines=False)
b'Skipping line 41589: expected 4 fields, saw 11\nSkipping line 51628: expected
4 fields, saw 7\nSkipping line 114465: expected 4 fields, saw 5\n'
b'Skipping line 142496: expected 4 fields, saw 8\nSkipping line 189732: expected
4 fields, saw 6\nSkipping line 245218: expected 4 fields, saw 7\n'
b'Skipping line 388430: expected 4 fields, saw 5\n'
C:\Users\HP\AppData\Local\Temp\ipykernel_11960\384184408.py:1: DtypeWarning:
Columns (2,3) have mixed types. Specify dtype option on import or set
low_memory=False.
comments = pd.read_csv('D:\YoutubeData.csv' , error_bad_lines=False)
```

```
[3]: comments.head(10)
```

```
[3]:      video_id      comment_text  likes \
0  XpVt6Z1Gjjo      Logan Paul it's yo big day      4
1  XpVt6Z1Gjjo  I've been following you from the start of your...      3
2  XpVt6Z1Gjjo      Say hi to Kong and maverick for me      3
3  XpVt6Z1Gjjo      MY FAN . attendance      3
4  XpVt6Z1Gjjo      trending      3
5  XpVt6Z1Gjjo      #1 on trending AYYYYEEEE      3
6  XpVt6Z1Gjjo      The end though      4
7  XpVt6Z1Gjjo      #1 trending!!!!!!!!!!      3
8  XpVt6Z1Gjjo      Happy one year vlogaversary      3
9  XpVt6Z1Gjjo  You and your shit brother may have single hand...      0
```

replies

```
0      0
1      0
2      0
3      0
4      0
5      0
6      0
7      0
8      0
9      0
```

1 lets find out missing values in your data

```
[4]: comments.isnull().sum()
```

```
[4]: video_id      0
      comment_text 25
      likes        0
      replies      0
      dtype: int64
```

2 drop missing values as we have very few & lets update dataframe as well..

```
[5]: comments.dropna(inplace=True)
```

```
[6]: comments.isnull().sum()
```

```
[6]: video_id      0
      comment_text  0
      likes        0
      replies      0
      dtype: int64
```

```
[ ]:
```

```
[ ]:
```

3 PERFORM SENTIMENT ANALYSIS

```
[7]: from textblob import TextBlob
```

```
[8]: comments.head(6)
```

```
[8]:      video_id      comment_text likes \
0  XpVt6Z1Gjjo      Logan Paul it's yo big day      4
1  XpVt6Z1Gjjo  I've been following you from the start of your...      3
2  XpVt6Z1Gjjo      Say hi to Kong and maverick for me      3
3  XpVt6Z1Gjjo      MY FAN . attendance      3
4  XpVt6Z1Gjjo      trending      3
5  XpVt6Z1Gjjo      #1 on trending AYYYYEEEE      3
```

```
      replies
0      0
1      0
2      0
3      0
4      0
5      0
```

```
[9]: TextBlob("Logan Paul it's yo big day ").sentiment.polarity
```

```
[9]: 0.0
```

```
[10]: comments.shape
```

```
[10]: (691375, 4)
```

```
[11]: # for those of you who dont have good specifications , considering sample of
      ↳data is a good option !

      sample_df = comments[0:1000]
```

```
[12]: sample_df.shape
```

```
[12]: (1000, 4)
```

```
[13]: polarity = []

      for comment in comments['comment_text']:
          try:
              polarity.append(TextBlob(comment).sentiment.polarity)
          except:
              polarity.append(0)
```

```
[14]: len(polarity)
```

```
[14]: 691375
```

```
[15]: comments['polarity'] = polarity
```

```
### Inserting polarity values into comments dataframe while defining feature_
↪name as "polarity"
```

```
[16]: comments.head(5)
```

```
[16]:      video_id      comment_text likes \
0  XpVt6Z1Gjjo      Logan Paul it's yo big day      4
1  XpVt6Z1Gjjo  I've been following you from the start of your...      3
2  XpVt6Z1Gjjo      Say hi to Kong and maverick for me      3
3  XpVt6Z1Gjjo      MY FAN . attendance      3
4  XpVt6Z1Gjjo      trending      3

      replies  polarity
0           0        0.0
1           0        0.0
2           0        0.0
3           0        0.0
4           0        0.0
```

4 Wordcloud Analysis of your data

```
[17]: filter1 = comments['polarity']==1
```

```
[18]: comments_positive = comments[filter1]
```

```
[19]: filter2 = comments['polarity']==-1
```

```
[20]: comments_negative = comments[filter2]
```

```
[21]: comments_positive.head(5)
```

```
[21]:      video_id      comment_text likes \
64  XpVt6Z1Gjjo      yu are the best      1
156  cLdxuaxaQwc  Power is the disease. Care is the cure. Keep...      0
227  WYYvHb03Eog  YAS Can't wait to get it! I just need to sell ...      0
307  sjlHnJvXdQs      This is priceless      0
319  sjlHnJvXdQs      Summed up perfectly      0

      replies  polarity
64           0        1.0
156          0        1.0
227          0        1.0
307          0        1.0
319          0        1.0
```

```
[22]: from wordcloud import WordCloud , STOPWORDS
```


