

TWITTER SENTIMENT ANALYSIS

May 23, 2023

```
[1]: import pandas as pd
import numpy as np
```

```
[2]: df=pd.read_csv('twitter_training.csv')
```

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

```
[3]:      2401  Borderlands  Positive  \
0   2401  Borderlands  Positive
1   2401  Borderlands  Positive
2   2401  Borderlands  Positive
3   2401  Borderlands  Positive
4   2401  Borderlands  Positive
5   2402  Borderlands  Positive
6   2402  Borderlands  Positive
7   2402  Borderlands  Positive
8   2402  Borderlands  Positive
9   2402  Borderlands  Positive
```

```
im getting on borderlands and i will murder you all ,
0 I am coming to the borders and I will kill you...
1 im getting on borderlands and i will kill you ...
2 im coming on borderlands and i will murder you...
3 im getting on borderlands 2 and i will murder ...
4 im getting into borderlands and i can murder y...
5 So I spent a few hours making something for fu...
6 So I spent a couple of hours doing something f...
7 So I spent a few hours doing something for fun...
8 So I spent a few hours making something for fu...
9 2010 So I spent a few hours making something f...
```

```
[4]: df.tail(10)
```

```
[4]:      2401  Borderlands  Positive  \
74671  9199      Nvidia  Positive
74672  9199      Nvidia  Positive
74673  9199      Nvidia  Positive
74674  9199      Nvidia  Positive
```

```

74675 9200      Nvidia Positive
74676 9200      Nvidia Positive
74677 9200      Nvidia Positive
74678 9200      Nvidia Positive
74679 9200      Nvidia Positive
74680 9200      Nvidia Positive

```

```

        im getting on borderlands and i will murder you all ,
74671 Let no elite go unnoticed... NVIDIA Highlights...
74672 Let no elim go unnoticed... NVIDIA Highlights...
74673 Let a no information elim that go unnoticed...
74674 <unk> my elim be no... NVIDIA Highlights Pict...
74675 Just realized the windows partition of my Mac ...
74676 Just realized that the Windows partition of my...
74677 Just realized that my Mac window partition is ...
74678 Just realized the windows partition of my Mac ...
74679 Just realized between the windows partition of...
74680 Just like the windows partition of my Mac is l...

```

```
[5]: df.describe
```

```

[5]: <bound method NDFrame.describe of          2401  Borderlands  Positive  \
0          2401  Borderlands  Positive
1          2401  Borderlands  Positive
2          2401  Borderlands  Positive
3          2401  Borderlands  Positive
4          2401  Borderlands  Positive
...      ...      ...      ...
74676  9200      Nvidia  Positive
74677  9200      Nvidia  Positive
74678  9200      Nvidia  Positive
74679  9200      Nvidia  Positive
74680  9200      Nvidia  Positive

```

```

        im getting on borderlands and i will murder you all ,
0          I am coming to the borders and I will kill you...
1          im getting on borderlands and i will kill you ...
2          im coming on borderlands and i will murder you...
3          im getting on borderlands 2 and i will murder ...
4          im getting into borderlands and i can murder y...
...
74676 Just realized that the Windows partition of my...
74677 Just realized that my Mac window partition is ...
74678 Just realized the windows partition of my Mac ...
74679 Just realized between the windows partition of...
74680 Just like the windows partition of my Mac is l...

```

```
[74681 rows x 4 columns]>
```

```
[6]: df.shape
```

```
[6]: (74681, 4)
```

```
[7]: df.isnull().sum()
```

```
[7]: 2401                                0
Borderlands                          0
Positive                             0
im getting on borderlands and i will murder you all ,    686
dtype: int64
```

```
[8]: df.dropna(inplace=True)
```

```
[9]: df.isnull().sum()
```

```
[9]: 2401                                0
Borderlands                          0
Positive                             0
im getting on borderlands and i will murder you all ,    0
dtype: int64
```

1 TextBlob is used for Polarity check. (polarity:- more polarity=more positive sentiment)

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

```
[11]: TextBlob('I am coming to the borders and I will kill you..').sentiment
```

```
[11]: Sentiment(polarity=0.0, subjectivity=0.0)
```

```
[12]: TextBlob('Just realized that the Windows partition of my...').sentiment
```

```
[12]: Sentiment(polarity=0.0, subjectivity=0.0)
```

```
[13]: xx=df[0:73995]
```

```
[14]: polarity=[]
for data in df['im getting on borderlands and i will murder you all ,']:
    try:
        polarity.append(TextBlob(data).sentiment.polarity)
    except:
        polarity.append(0)
```

```
[15]: polarity[0:10]
```

```
[15]: [0.0,
      0.0,
      0.0,
      0.0,
      0.0,
      0.284375,
      0.33571428571428574,
      0.18,
      0.284375,
      0.284375]
```

```
[16]: df['polarity']=polarity
```

```
[17]: xx=df.head(20)
```

```
[18]: xx.head()
```

```
[18]:      2401  Borderlands  Positive  \
0   2401  Borderlands  Positive
1   2401  Borderlands  Positive
2   2401  Borderlands  Positive
3   2401  Borderlands  Positive
4   2401  Borderlands  Positive

      im getting on borderlands and i will murder you all ,  polarity
0   I am coming to the borders and I will kill you...      0.0
1   im getting on borderlands and i will kill you ...      0.0
2   im coming on borderlands and i will murder you...      0.0
3   im getting on borderlands 2 and i will murder ...      0.0
4   im getting into borderlands and i can murder y...      0.0
```

```
[19]: pos_comt=df[df['polarity']==0.5]
```

```
[20]: pos_comt.head()
```

```
[20]:      2401  Borderlands  Positive  \
131   2423  Borderlands  Positive
132   2423  Borderlands  Positive
134   2423  Borderlands  Positive
135   2423  Borderlands  Positive
320   2454  Borderlands  Positive

      im getting on borderlands and i will murder you all ,  polarity
131   Come meet one of the lovely Gaming Goddesses .      0.5
132           Meet one of the lovely gambling goddesses.      0.5
134           Come to one of the lovely Gaming Goddesses.      0.5
135   16 Come meet one of... the lovely Gaming Godde...      0.5
320   Hey guys! @Optus appears to have had an accide...      0.5
```

```
[21]: neg_cmt=df[df['polarity']==-1]
```

```
[22]: neg_cmt.head()
```

```
[22]:      2401      Borderlands  Positive  \
146    2425      Borderlands  Negative
1006   2578      Borderlands  Negative
2068   2762      Borderlands  Negative
2500   1636  CallOfDutyBlackopsColdWar  Irrelevant
3365   1784  CallOfDutyBlackopsColdWar   Negative

      im getting on borderlands and i will murder you all ,  polarity
146                                     "What terrible bitch!"      -1.0
1006  made @EpicGames @2K why add crossplay for it 3...      -1.0
2068  what is the horrible thing ever've ever made...      -1.0
2500  The dreaded Evil Bot •. sniper for @NioxSnipin...      -1.0
3365      .  worst mastery camo to date      -1.0
```

```
[23]: neg_cmt['im getting on borderlands and i will murder you all ,']
```

```
[23]: 146                                     "What terrible bitch!"
1006    made @EpicGames @2K why add crossplay for it 3...
2068    what is the horrible thing ever've ever made...
2500    The dreaded Evil Bot •. sniper for @NioxSnipin...
3365      .  worst mastery camo to date

...
72734    How could Nvidia Imagine Something THIS Insane...
74015      This is insane! Makes me want to upgrade my GPU
74018      This was insane! Makes me want to upgrade my GPU
74019      This is totally insane! 14 Makes me want to up...
74020      drive is insane! Makes me want to upgrade my GPU
Name: im getting on borderlands and i will murder you all ,, Length: 534, dtype:
object
```

```
[24]: total=' '.join(neg_cmt['im getting on borderlands and i will murder you all ,'])
```

```
[25]: total[0:2000]
```

```
[25]: '"What terrible bitch!" made @EpicGames @2K why add crossplay for it 3 if you
weren\'t gonna make it compatible for console? That was horrible what is the
horrible thing ever\'ve ever made.. by @Borderlands @GearboxOfficial
@MaxMittelman. The dreaded Evil Bot •. sniper for @NioxSnipingYT •... .  worst
mastery camo to date Worst domination of all time The worst macamos to date. .
My worst mastery camo to date I hope it isn\'t, because it\'s disgusting. Worst
way to die in the  The worst way to die in the world The Worst Way to Die in
Worst way to die among the Worst way to die in America the This looks stupid!!
Just going to say it there now: Cartel 12v12 is insane chaos! This is disgusting
this is insane And they\'re terrible Between apple & amazon ion know who the
```

worst when it comes to taking my damn money Between Apple and Amazon ions know who\'s worst when it comes to taking my damn money Between apple & amazon ion know who the worst when it comes to taking my damn iPhone Between my apple & an amazon ion know who the worst when it even comes to taking my damn money People are so evil in this life that they will know they have Covid 19 and are intentionally spreading it, look at the Amazon supplier OMG!! There\'s a Kobe jersey on amazon for \$7K. Y\'all are terrible people. There\'s a Kobe jersey on Amazon for \$7K. Y\'all are terrible people. There\'s a Kobe T-shirt on Amazon for \$7K. Y\'all are terrible people. There\'s a Kobe purchase on amazon for \$7K. Y\'all be terrible at. The worst character Worst Character Worst Character The worst candidates The official worst character @PlayOverwatch It\'s on PTR and looks very annoying ngl pic.twitter.com/EOCyqjzoB0 @ PlayOverwatch It\'s on PTR and looks very annoying ngl pic.twitter.com / EOCyqjzoB0 @ PlayOverwatch It\'s on PTR and looks very annoying npic.su / EOCyqjzoB0 RhandlerR It\'s on PTR and looks very annoying ngl pic.twitter.com/EOCyqjzoB0 in RhandlerR It\'s on PTR and looks very annoying ngl pic.twitter.com/EOCyqjzoB0 So it t'

```
[26]: total2=' '.join(pos_comt['im getting on borderlands and i will murder you all_
↪,'])
```

```
[27]: total2[0:2000]
```

```
[27]: "Come meet one of the lovely Gaming Goddesses . Meet one of the lovely gambling
goddesses. Come to one of the lovely Gaming Goddesses. 16 Come meet one of...
the lovely Gaming Goddesses. Hey guys! @Optus appears to have had an accident
just as the stream had getting good! As an operator will be reporting tomorrow
for MORE borderlands! Once again, big apologies, no idea what happened! My 4
favorite games are Minecraft. Borderlands 2.Forza Horizon 4. Lego Star Wars My 4
favorite games are Minecraft. Borderlands 2.Forza h4. Lego star wars My most
despised area in Borderlands 1 is now the Rust Commons area. . So many
sidequests My most despised area in Borderlands 1 is now the Rust Commons area.
Top 4 favourite games you say? . . Sea of Thieves . Bioshock . SSX3 .
Battlefield 1. . What about you @ChloeSauras @ChrisLawis @ForsakenRose679
@twlztedprincess Top 4 favorite games you say?... Sea of Thieves. Bioshock.
SSX3. Battlefield 1.. What about you @ ChloeSauras @ ChrisLawis @
ForsakenRose679 @ twlztedprincess Top 4 favorite games you're talking about?...
...
...
... .. Top all 4 favourite adventure games you say? are [UNK].. Sea of
Thieves. Bioshock. SSX3. Battlefield 1.. In What happens about when you want
@ChloeSauras @ChrisLawis 0 @ForsakenRose679 @twlztedprincess I miss borderlands
tumblr so much- so many of those accounts I used to love were deactivated- never
to return to the fandom </3 I miss Borderland's Tumblr so much - so many of
those accounts I used to love have been deactivated - that I will never return
to the fandom. < / 3 Borderlands 3 Chapter 1 Download.be/OSKu6Vr4iXU or @YouTube
then Watch whilst I dive into a Virtual Adventure :) Lets do without :D. 8 and a
DLC2 short story item. Loved it! Thank F!. @DuvalMagic @Borderlands.
```

@GearboxOfficial Enjoying my Borderlands 3 Tubbz out in the sun @N"

```
[28]: import matplotlib.pyplot as plt
      %matplotlib inline
```

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

```
[30]: cloud = WordCloud(stopwords=set(STOPWORDS)).generate(total)
plt.figure(figsize=(15, 10))
plt.imshow(cloud)
plt.axis('off')
plt.show()
```



```
[31]: cloud = WordCloud(stopwords=set(STOPWORDS)).generate(total2)
plt.figure(figsize=(15, 10))
plt.imshow(cloud)
plt.axis('off')
plt.show()
```

