

```
In [4]: import numpy as np
import pandas as pd
```

```
In [6]: df=pd.read_csv('B:\KARTHICK\stress.csv')
df.head()
```

```
Out[6]:
```

	subreddit	post_id	sentence_range	text	id	label	confidence	social_timestamp	social_k
0	ptsd	8601tu	(15, 20)	He said he had not felt that way before, sugge...	33181	1	0.8	1521614353	
1	assistance	8lbrx9	(0, 5)	Hey there r/assistance, Not sure if this is th...	2606	0	1.0	1527009817	
2	ptsd	9ch1zh	(15, 20)	My mom then hit me with the newspaper and it s...	38816	1	0.8	1535935605	
3	relationships	7rorpp	[5, 10]	until i met my new boyfriend, he is amazing, h...	239	1	0.6	1516429555	
4	survivorsofabuse	9p2gbc	[0, 5]	October is Domestic Violence Awareness Month a...	1421	1	0.8	1539809005	

5 rows × 116 columns

```
In [8]: df.describe()
```

```
Out[8]:
```

	id	label	confidence	social_timestamp	social_karma	syntax_ari	lex_liwc_WC	lex
count	2838.000000	2838.000000	2838.000000	2.838000e+03	2838.000000	2838.000000	2838.000000	
mean	13751.999295	0.524313	0.808972	1.518107e+09	18.262156	4.684272	85.996124	
std	17340.161897	0.499497	0.177038	1.552209e+07	79.419166	3.316435	32.334887	
min	4.000000	0.000000	0.428571	1.483274e+09	0.000000	-6.620000	5.000000	
25%	926.250000	0.000000	0.600000	1.509698e+09	2.000000	2.464243	65.000000	
50%	1891.500000	1.000000	0.800000	1.517066e+09	5.000000	4.321886	81.000000	
75%	25473.750000	1.000000	1.000000	1.530898e+09	10.000000	6.505657	101.000000	
max	55757.000000	1.000000	1.000000	1.542592e+09	1435.000000	24.074231	310.000000	

8 rows × 112 columns

```
In [10]: df.isnull().sum()
```

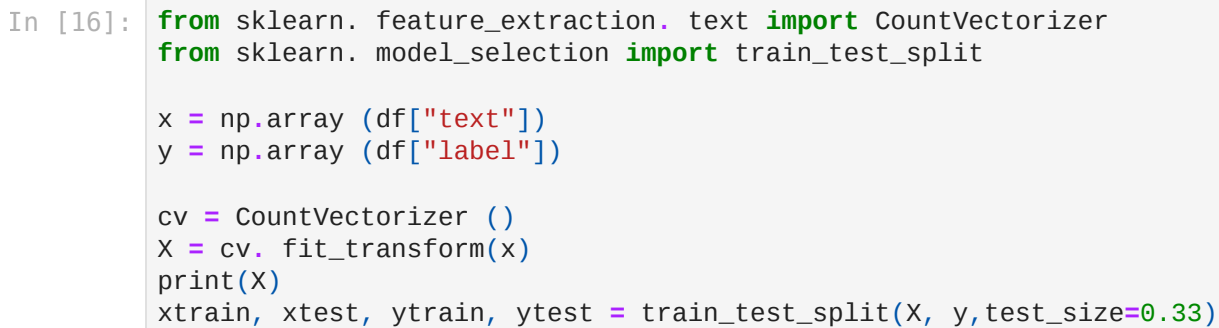
```
Out[10]: subreddit      0
         post_id      0
         sentence_range 0
         text         0
         id           0
         ..
         lex_dal_avg_pleasantness 0
         social_upvote_ratio      0
         social_num_comments      0
         syntax_fk_grade          0
         sentiment                0
         Length: 116, dtype: int64
```

```
In [12]: import nltk
import re
from nltk.corpus import stopwords
import string
nltk.download('stopwords')
stemmer = nltk.SnowballStemmer("english")
stopword=set (stopwords . words ( 'english' ))

def clean(text):
    text = str(text) . lower() #returns a string where all characters are lower case. S
    text = re. sub('\.[*?\]', ' ', text) #substring and returns a string with replaced va
    text = re. sub('https?://\S+/\S+\. \S+', ' ', text)#whitespace char with pattern
    text = re. sub('<.*?>+', ' ', text)#special char enclosed in square brackets
    text = re. sub(' [%s]' % re. escape(string. punctuation), ' ', text)#eliminate punct
    text = re. sub(' \n', ' ', text)
    text = re. sub(' \w*\d\w*', ' ', text)#word character ASCII punctuation
    text = [word for word in text. split(' ') if word not in stopword] #removing stopwo
    text = " ". join(text)
    text = [stemmer . stem(word) for word in text. split(' ') ]#remove morphological aff
    text = " ". join(text)
    return text
df [ "text" ] = df["text"]. apply(clean)
```

```
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\GOWRI\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

```
In [14]: import matplotlib. pyplot as plt
from wordcloud import WordCloud, STOPWORDS, ImageColorGenerator
text = " ". join(i for i in df. text)
stopwords = set (STOPWORDS)
wordcloud = WordCloud( stopwords=stopwords, background_color="white") . generate(text)
plt. figure(figsize=(10, 10) )
plt. imshow(wordcloud )
plt. axis("off")
plt. show( )
```



```

(0, 7346) 1
(0, 3226) 1
(0, 9392) 1
(0, 814) 1
(0, 8301) 1
(0, 3697) 1
(0, 7155) 1
(0, 8846) 1
(0, 252) 1
(0, 9683) 1
(0, 4250) 1
(0, 4980) 1
(0, 5272) 1
(0, 2141) 1
(0, 5066) 1
(0, 3213) 1
(0, 2543) 3
(0, 4135) 1
(0, 5263) 1
(0, 3644) 1
(0, 8281) 1
(0, 6803) 1
(0, 4097) 1
(0, 5121) 1
(0, 1782) 1
:      :
(2836, 830) 1
(2836, 4502) 1
(2836, 2875) 1
(2836, 4562) 1
(2836, 4731) 1
(2836, 4458) 1
(2837, 7346) 2
(2837, 2966) 1
(2837, 5479) 2
(2837, 8722) 1
(2837, 8443) 1
(2837, 6714) 1
(2837, 4265) 1
(2837, 9579) 1
(2837, 5515) 1
(2837, 8819) 1
(2837, 5659) 1
(2837, 2537) 1
(2837, 7409) 1
(2837, 2302) 1
(2837, 7746) 1
(2837, 2706) 1
(2837, 8818) 1
(2837, 5405) 1
(2837, 2968) 1

```

```

In [18]: from sklearn.naive_bayes import BernoulliNB
         model=BernoulliNB()
         model.fit(xtrain,ytrain)

```

```

Out[18]: BernoulliNB()

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```

In [19]: user=input("Enter the text")
         data=cv.transform([user]).toarray()
         output=model.predict(data)
         print(output)

```

Enter the textThese past couple of months have been the worst. My anxiety has gotten so bad it's effecting my sleep and relationship. I've become so paranoid about my health as well. I don't feel like me anymore and I just feel scared all the time now over every little thing. I don't have money to see a therapist either...

[1]