```
import pandas as pd
dataset=pd.read_csv("hate_speech.csv")
dataset
₹
                id label
                                                                          ☶
                                                                 tweet
        0
                1
                        0
                             @user when a father is dysfunctional and is s...
        1
                2
                        0
                              @user @user thanks for #lyft credit i can't us...
                3
                        0
                                                     bihday your majesty
        3
                 4
                        0
                                 #model i love u take with u all the time in ...
                 5
                        0
                                       factsguide: society now #motivation
       ...
      5237
           31935
                        1 lady banned from kentucky mall. @user #jcpenn...
      5238
           31947
                             @user omfg i'm offended! i'm a mailbox and i'...
      5239 31948
                           @user @user you don't have the balls to hashta...
      5240 31949
                            makes you ask yourself, who am i? then am i a...
      5241 31961
                            @user #sikh #temple vandalised in in #calgary,...
     5242 rows × 3 columns
 Next steps: ( Generate code with dataset
                                           View recommended plots
                                                                         New interactive sheet
dataset.shape
→ (5242, 3)
dataset.label.value_counts()
₹
             count
      label
        0
              3000
              2242
import pandas as pd
dataset=pd.read_csv("hate_speech.csv")
for index,tweet in enumerate(dataset["tweet"][10:15]):
  print(index+1,"-",tweet)
→ 1 - â№2 #ireland consumer price index (mom) climbed from previous 0.2% to 0.5% in may #blog #silver #gold #forex
     2 - we are so selfish. #orlando #standwithorlando #pulseshooting #orlandoshooting #biggerproblems #selfish #heabreaking
                                                                                                                                       #values #love
     3 - i get to see my daddy today!! #80days #gettingfed
     4 - ouch...junior is angryð@@@#got7 #junior #yugyoem #omg
     5 - i am thankful for having a paner. #thankful #positive
import re
# Clean text from noise
def clean_text(text):
    text = re.sub(r'[^a-zA-Z\s]', ' ', text)
    text = re.sub(r'[^\x00-\x7F]+', ' ', text)
    text = text.lower()
    return text
dataset['clean_text']=dataset.tweet.apply(lambda x:clean_text(x))
```

```
from nltk.corpus import stopwords
len(stopwords.words('english'))
→ 179
import nltk
nltk.download('stopwords')
[nltk_data] Unzipping corpora/stopwords.zip.
     True
def gen freq(text):
    word_list = []
    for tw_words in text.split():
        word_list.extend(tw_words)
    word_freq = pd.Series(word_list).value_counts()
    stop = stopwords.words('english')
    word_freq = word_freq.drop(stop, errors='ignore')
    return word_freq
import re
def any_neg(words):
  for word in words:
    if word in ["n","no",'not'] or re.search(r'\wn\'t',word):
      return 1
      return 0
      return 0
def any_rare(words,rare_100):
  for word in words:
    if word in rare_100:
      return 1
    else:
        return 0
Generated\ code\ may\ be\ subject\ to\ a\ license\ |\ RajarsiGit/Basic\_ML\_Model\_for\_Text\_Classification
def is_question(words):
  for word in words:
    if word in ["when","what","how","why","who"]:
      return 1
      return 0
Generated\ code\ may\ be\ subject\ to\ a\ license\ |\ RuthNduta/Natural-Language-Processing\ |\ RajarsiGit/Basic\_ML\_Model\_for\_Text\_Classification
word_freq=gen_freq(dataset.clean_text.str)
rare 100=word freq[-100:]
dataset['word_count'] = dataset.clean_text.str.split().apply(lambda x:len(x))
dataset['any_neg']=dataset.clean_text.str.split().apply(lambda x:any_neg(x))
dataset['is_question']=dataset.clean_text.str.split().apply(lambda x:is_question(x))
dataset['any_rare']=dataset.clean_text.str.split().apply(lambda x:any_rare(x,rare_100))
dataset['char_count']=dataset.clean_text.apply(lambda x:len(x))
                                                               + Code
                                                                           + Text
Start coding or generate with AI.
```