```
import nltk
from nltk.tokenize import word_tokenize
import pandas as pd
df=pd.read_csv('IMDB Dataset.csv', index=False, encoding='utf-8')
     ______
                                                 Traceback (most recent call last)
     <ipython-input-1-96cab77d1e7f> in <module>()
     ---> 1 df.to_csv('movie_data.csv', index=False, encoding='utf-8')
     NameError: name 'df' is not defined
      SEARCH STACK OVERFLOW
df.head()
                                                 review sentiment
               I haven't seen every single movie that Burt Re...
      0
                                                                  1
      1 Russian actress TATIANA SAMOILOVA reminds me s...
      2
               A bunch of full-length movies featuring the Mu...
                                                                  1
      3
                I'm out of words to describe the beauty of "Th...
                                                                  1
      4
            What happened to Ava Gardner in the 1940s and ...
reviews = df.review.str.cat(sep=' ')
#function to split text into word
tokens = word_tokenize(reviews)
vocabulary = set(tokens)
print(len(vocabulary))
frequency_dist = nltk.FreqDist(tokens)
sorted(frequency_dist,key=frequency_dist.__getitem__, reverse=True)[0:50]
     199786
     ['the',
      ',',
'.',
'a',
      'and',
      'of',
      'to',
'is',
      '/',
'>',
      '<',
'br',
      'in',
      'I',
'it',
      'that',
      "'s",
'this',
      'was',
      'The',
      'as',
      'with'
      'movie',
      'for',
      'film',
      ')',
      'but',
"''",
      "n't",
      'on',
      'you',
      'are',
      'not',
'have',
      'his',
      'be',
      '!',
'he',
      'one',
      'at',
      'by',
```

```
'all',
       'who',
       'they',
       'from',
       'like',
       'It']
import string
from \ nltk.corpus \ import \ stopwords
stop_words = set(stopwords.words('english'))
tokens = [w for w in tokens if not w in stop_words]
frequency_dist = nltk.FreqDist(tokens)
tokens = list(filter(lambda token: token not in string.punctuation, tokens))
tokens=[tokens for word in tokens if word.isalpha()]
sorted(frequency_dist,key=frequency_dist.__getitem__, reverse=True)[0:50]
      ['br',
       'I',
"'s",
       'The<sup>'</sup>,
       'movie',
       'film',
       "n't",
       'like',
       'It',
       'This',
       'good'
       'would',
       '...',
'time'
       'really',
       'see',
'even',
       'story',
       'much',
       'could',
       'get',
       'people',
       'bad',
       'great',
       'well',
'first',
       'made',
       'also',
       'make',
       'way',
       'movies',
       'But',
       'think',
       'characters',
       'character',
       'And',
'films',
       'seen',
'watch',
       'many',
       'acting',
       'plot',
'know',
       'never',
       'two',
       'Α',
       'There']
from wordcloud import WordCloud
import matplotlib.pyplot as plt
wordcloud = WordCloud().generate_from_frequencies(frequency_dist)
plt.imshow(wordcloud)
plt.axis("off")
plt.show()
```



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