```
!pip install nltk
     Requirement already satisfied: nltk in /usr/local/lib/python3.10/dist-packages (3.8.1)
     Requirement already satisfied: click in /usr/local/lib/python3.10/dist-packages (from nltk) (8.1.7)
     Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from nltk) (1.3.2)
     Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.10/dist-packages (from nltk) (2023.6.3)
     Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from nltk) (4.66.1)
text = 'One day, a fox became very hungry. He went out to search for some food. He searched high and low but couldn't find anything to ea
text
     'One day, a fox became very hungry. He went out to search for some food. He searched
     high and low but couldn't find anything to eat. Finally, as his stomach rumbled, he
     stumbled upon a farmer's wall. At the top of the wall, he saw the biggest, juiciest
     granes he'd ever seen. They were a rich nurnle, telling the fox they were ready to h
import nltk
nltk.download('stopwords')
     [nltk_data] Downloading package stopwords to /root/nltk_data...
     [nltk\_data] \quad \textit{Unzipping corpora/stopwords.zip.} \\
     True
stop_words = stopwords.words('english')
nltk.download('punkt')
     [nltk_data] Downloading package punkt to /root/nltk_data...
     [nltk_data] Unzipping tokenizers/punkt.zip.
     True
from nltk.tokenize import word tokenize
words = word_tokenize(text)
holder = list()
for w in words:
    if w not in set(stop_words):
        holder.append(w)
holder
     ['One',
      'day',
      ',',
'fox',
      'became',
      'hungry',
      '.',
'He',
      'went'
       'search',
      'food',
      '.',
'He',
      'searched',
      'high',
      'low',
      'find',
      'anything',
      'eat',
      'Finally',
      'stomach',
      'rumbled',
       'stumbled',
       'upon',
      'farmer',
      'wall',
      '.',
'At',
      'top'
      'wall',
```

```
',',
'saw',
      'biggest',
      'juiciest',
      'grapes',
      'ever',
      'seen',
      'They',
      'rich'
      'purple',
      'telling',
      'fox',
      'ready',
      'eaten',
      '.']
holder = [w for w in words if w not in set(stop_words)]
print(holder)
     ['One', 'day', ',', 'fox', 'became', 'hungry', '.', 'He', 'went', 'search', 'food', '.', 'He', 'searched', 'high', 'low', ''', 'fin
from nltk.stem import PorterStemmer, SnowballStemmer, LancasterStemmer
porter = PorterStemmer()
snow = SnowballStemmer(language = 'english')
lancaster = LancasterStemmer()
words = ['play', 'plays', 'played', 'playing', 'player']
porter_stemmed = list()
for w in words:
   stemmed words = porter.stem(w)
    porter_stemmed.append(stemmed_words)
porter_stemmed
     ['play', 'play', 'play', 'player']
porter_stemmed = [porter.stem(x) for x in words]
print (porter_stemmed)
     ['play', 'play', 'play', 'player']
snow_stemmed = list()
for w in words:
   stemmed_words = snow.stem(w)
    snow_stemmed.append(stemmed_words)
snow stemmed
     ['play', 'play', 'play', 'player']
snow\_stemmed = [snow.stem(x) for x in words]
print (snow_stemmed)
     ['play', 'play', 'play', 'play', 'player']
lancaster_stemmed = list()
for w in words:
    stemmed_words = lancaster.stem(w)
    lancaster_stemmed.append(stemmed_words)
lancaster_stemmed
     ['play', 'play', 'play', 'play']
lancaster_stemmed = [lancaster.stem(x) for x in words]
print (lancaster_stemmed)
     ['play', 'play', 'play', 'play']
```

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