

- NLTK tokenization

- [link1](#)

- ```
from nltk.tokenize import word_tokenize
text = "God is Great! I won a lottery."
print(word_tokenize(text))
```

Output: ['God', 'is', 'Great', '!', 'I', 'won', 'a', 'lottery', '.']

- NLTK stop words removal

- [link1](#)

- ```
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize

example_sent = "This is a sample sentence, showing off the stop words
filtration."

stop_words = set(stopwords.words('english'))

word_tokens = word_tokenize(example_sent)

filtered_sentence = [w for w in word_tokens if not w in stop_words]

filtered_sentence = []

for w in word_tokens:
    if w not in stop_words:
        filtered_sentence.append(w)

print(word_tokens)
print(filtered_sentence)

# outputs
['This', 'is', 'a', 'sample', 'sentence', ',', 'showing',
'off', 'the', 'stop', 'words', 'filtration', '.']
['This', 'sample', 'sentence', ',', 'showing', 'stop',
'words', 'filtration', '.']
```

- NLTK stemming

- [link1](#)

- ```
from nltk.stem import PorterStemmer
from nltk.tokenize import word_tokenize
```

```
ps = PorterStemmer()

sentence = "Programers program with programing languages"
words = word_tokenize(sentence)

for w in words:
 print(w, " : ", ps.stem(w))

outputs
Programers : program
program : program
with : with
programing : program
languages : languag
```

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