

## AI Lab\exp\_07\stop\_words.py

```
1 import nltk
2 from nltk.corpus import stopwords
3 from nltk.tokenize import word_tokenize
4
5 nltk.download('punkt', quiet=True)
6 nltk.download('stopwords', quiet=True)
7
8 with open('D:/SelfRepoClone/Python_LocalVC/AI Lab/exp_07/input.txt', 'r') as file:
9     text = file.read()
10
11 words = word_tokenize(text)
12 stop_words = set(stopwords.words('english'))
13
14 filtered_words = [word for word in words if word.lower() not in stop_words]
15
16 filtered_text = ' '.join(filtered_words)
17
18 print("Original text:")
19 print(text)
20 print("\nFiltered text:")
21 print(filtered_text)
22
23 with open('output.txt', 'w') as file:
24     file.write(filtered_text)
```

>\_pwsh ➔ Python\_LocalVC ➔ 🐍 master ≡ ✎?2 ~1 ➔ 2ms

13, 23:19

```
• ➤> C:\Users\adtya\AppData\Local\Programs\Python\Python312\python.exe -u "d:\SelfRepoClone\Python _Local\VC\AI Lab\exp_07\stop_words.py"
```

Original text:

The quick brown fox jumps over the lazy dog near the old wooden bridge by the river. In the morning, when the sun rises above the mountains, all the birds begin to sing their beautiful songs. The children were playing with their toys under the big tree while their parents sat on the bench and watched them carefully. There are many books on the shelf in the library where students come to study for their exams. This is a test passage that contains numerous common stop words such as the, is, are, in, on, at, to, for, of, and, a, an, with, by, from, about, between, during, before, after, while, because, although, since, until, unless, when, where, which, who, whom, whose, what, how, why, if, then, else, or, nor, but, yet, so, as, than, through, into, onto, upon, within, without, throughout, and many more.

### Filtered text: