

```
import nltk
from nltk.corpus import stopwords
import spacy

nltk.download('stopwords')

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

nlp = spacy.load('en_core_web_sm')

def preprocess_text(text):
    """
    Preprocess text by converting to lowercase and removing stopwords.
    """
    text_lower = text.lower()

    doc = nlp(text_lower)

    filtered_tokens = [token.text for token in doc if token.text not in nltk_stopwords]

    return ' '.join(filtered_tokens)

sample_text = "This is an example sentence demonstrating how to remove stopwords and preprocess text using NLTK and spaCy."

processed_text = preprocess_text(sample_text)

print("Original Text:")
print(sample_text)
print("\nProcessed Text:")
print(processed_text)
```

 [nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data] Package stopwords is already up-to-date!

Original Text:
This is an example sentence demonstrating how to remove stopwords and preprocess text using NLTK and spaCy.

Processed Text:
example sentence demonstrating remove stopwords preprocess text using nltk spacy .