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#DAY-6


#Write a Python program to using NLTK and Spacy
#Convert text to lowercase.
#Remove stopwords using NLTK


import nltk
from nltk.corpus import stopwords
import spacy

# Download the NLTK stopwords
nltk.download('stopwords')

# Load SpaCy's English model
nlp = spacy.load('en_core_web_sm')

# Function to process text
def process_text(text):
    # Convert text to lowercase
    text = text.lower()

    # Tokenize text using SpaCy
    doc = nlp(text)

    # Get the list of NLTK stopwords
    stop_words = set(stopwords.words('english'))

    # Remove stopwords
    filtered_words = [token.text for token in doc if token.text not in stop_words]

    # Join filtered words back into a single string
    processed_text = ' '.join(filtered_words)

    return processed_text

# Sample text
text = "This is an example sentence to demonstrate the text processing using NLTK and SpaCy."

# Process the text
processed_text = process_text(text)

print("Original Text:", text)
print("Processed Text:", processed_text)
```

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[nltk_data] Downloading package stopwords to /root/nltk_data...
[nltk_data]   Unzipping corpora/stopwords.zip.
Original Text: This is an example sentence to demonstrate the text processing using NLTK and SpaCy.
Processed Text: example sentence demonstrate text processing using nltk spacy .
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Start coding or generate with AI.