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#EXCLLER DAY-6(198)
!pip install nltk spacy
import spacy
import nltk
import re
from nltk.corpus import stopwords
# Download necessary NLTK resources
nltk.download('stopwords')
# Load SpaCy's English model
nlp = spacy.load("en_core_web_sm")
def process_text(text):
   # Convert to lowercase
    text = text.lower()
    # Remove punctuation
    text = re.sub(r'[^\w\s]', '', text)
    # Process text with SpaCy
    doc = nlp(text)
    # Get English stopwords from NLTK
    stop words = set(stopwords.words('english'))
    # Remove stopwords
    filtered_words = [token.text for token in doc if token.text.lower() not in stop_words]
    return " ".join(filtered_words)
# Define input text
text = "Write a Python program using NLTK and SpaCy. Convert text to lowercase. Remove stopwords and punctuation."
# Process the text
processed_text = process_text(text)
# Print the result
print(processed_text)
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Requirement already satisfied: marisa-trie>=1.1.0 in /usr/local/lib/python3.11/dist-packages (from language-data>=1.2->langcodes<4.6 Requirement already satisfied: markdown-it-py>=2.2.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0->typer<1.0.0,>=6 Requirement already satisfied: pygments<3.0.0,>=2.13.0 in /usr/local/lib/python3.11/dist-packages (from rich>=10.11.0->typer<1.0.0,> Requirement already satisfied: wrapt in /usr/local/lib/python3.11/dist-packages (from smart-open<8.0.0,>=5.2.1->weasel<0.5.0,>=0.1.6 Requirement already satisfied: mdurl~=0.1 in /usr/local/lib/python3.11/dist-packages (from markdown-it-py>=2.2.0->rich>=10.11.0->typer<1.0.1 [nltk_data] Downloading package stopwords to /root/nltk_data... [nltk_data] Unzipping corpora/stopwords.zip.

write python program using nltk spacy convert text lowercase remove stopwords punctuation