```
import nltk
from nltk.tokenize import word_tokenize
from nltk.corpus import stopwords
nltk.download('punkt')
nltk.download('stopwords')
→ [nltk_data] Downloading package punkt to /root/nltk_data...
     [nltk_data] Unzipping tokenizers/punkt.zip.
     [nltk_data] Downloading package stopwords to /root/nltk_data...
     [nltk_data] Unzipping corpora/stopwords.zip.
     True
text = """
The playful kitten chased the butterfly through the garden, its tiny paws barely touching the ground. The sun shone brightly, casting dancin
# 1. Tokenization
tokens = word_tokenize(text)
print(tokens)
The', 'playful', 'kitten', 'chased', 'the', 'butterfly', 'through', 'the', 'garden', ',', 'its', 'tiny', 'paws', 'barely', 'touching',
# 2. Normalization
norm_tokens = [word.lower() for word in tokens]
print(norm_tokens)
🚁 ['the', 'playful', 'kitten', 'chased', 'the', 'butterfly', 'through', 'the', 'garden', ',', 'its', 'tiny', 'paws', 'barely', 'touching',
# 3. Stemming
from nltk.stem import PorterStemmer
ps = PorterStemmer()
stem token = [ps.stem(word) for word in tokens]
print(stem_token)
🚁 ['the', 'play', 'kitten', 'chase', 'the', 'butterfli', 'through', 'the', 'garden', ',', 'it', 'tini', 'paw', 'bare', 'touch', 'the', 'gr
# 4. Removal of Stopwords
stop_word = set(stopwords.words('english'))
stop_word_tokens = [word for word in stem_token if word not in stop_word]
print(stop_word_tokens)
🚌 ['play', 'kitten', 'chase', 'butterfli', 'garden', ',', 'tini', 'paw', 'bare', 'touch', 'ground', '.', 'sun', 'shone', 'brightli', ',',
Start coding or generate with AI.
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