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# Install required libraries (if not already installed)
 # !pip install nltk spacy
 # !python -m spacy download en_core_web_sm
 import nltk
 import spacy
 from nltk.corpus import stopwords
 from nltk.tokenize import word_tokenize, sent_tokenize
 from nltk.stem import PorterStemmer, WordNetLemmatizer
 import string
 # Load spaCy English model
 nlp = spacy.load('en_core_web_sm')
 # Sample Raw Text
 raw_text = """
 Nike, Inc. is an American multinational corporation that is engaged in the design, development, manufacturing,
 and worldwide marketing and sales of footwear, apparel, equipment, accessories, and services. The company is
 headquartered near Beaverton, Oregon, in the Portland metropolitan area. It is one of the world's largest
 suppliers of athletic shoes and apparel and a major manufacturer of sports equipment. Nike sponsors many high-profile
 athletes and sports teams around the world, and its brand is recognized globally. The company was founded on
 January 25, 1964, as Blue Ribbon Sports and officially became Nike, Inc. in 1971. Nike's mission statement is
 "To bring inspiration and innovation to every athlete in the world."
 # ----- NLTK Preprocessing -----
 # Download necessary NLTK data
 nltk.download('punkt')
 nltk.download('stopwords')
 nltk.download('wordnet')
 nltk.download('punkt_tab') # Download punkt_tab explicitly
 # 1. Tokenization
 sentences = sent_tokenize(raw_text)
 words = word_tokenize(raw_text)
 # 2. Convert to lowercase
words = [word.lower() for word in words]
# 3. Remove punctuation
 words = [word for word in words if word.isalnum()]
 # 4. Remove stopwords
 stop_words = set(stopwords.words('english'))
 words = [word for word in words if word not in stop_words]
 # 5. Stemming
 ps = PorterStemmer()
 stemmed_words = [ps.stem(word) for word in words]
 # 6. Lemmatization
 lemmatizer = WordNetLemmatizer()
 lemmatized_words = [lemmatizer.lemmatize(word) for word in words]
 print("NLTK Tokenized Words:", words)
 print("Stemmed Words:", stemmed_words)
 print("Lemmatized Words:", lemmatized_words)
 # ----- spaCy Preprocessing -----
 doc = nlp(raw_text)
 # Tokenization, Lowercasing, Removing stopwords and punctuation
 spacy_tokens = [token.lemma_.lower() for token in doc if not token.is_stop and token.is_alpha]
 # Named Entity Recognition (Optional)
 entities = [(ent.text, ent.label_) for ent in doc.ents]
 print("spaCy Processed Tokens:", spacy_tokens)
 print("Named Entities:", entities)
', 'became', 'nike', '1971', 'nike', 'mission', 'statement', 'bring', 'inspiration', 'innovation', 'every', 'athlete', 'world'] ir', 'innov', 'everi', 'athlet', 'world']
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ke', '1971', 'nike', 'mission', 'statement', 'bring', 'inspiration', 'innovation', 'every', 'athlete', 'world']
ent', 'bring', 'inspiration', 'innovation', 'athlete', 'world']