**BASIC TEXT PROCESSING:**

import nltk

nltk.download('punkt') # For tokenization

nltk.download('stopwords') # For stopwords

nltk.download('wordnet') # For lemmatization

nltk.download('averaged\_perceptron\_tagger') # For POS tagging

from nltk.tokenize import word\_tokenize, sent\_tokenize

text = "NLTK is a leading library for NLP in Python. It helps in text processing."

# Sentence Tokenization

print(sent\_tokenize(text))

# Word Tokenization

print(word\_tokenize(text))

from nltk.corpus import stopwords

words = word\_tokenize(text)

stop\_words = set(stopwords.words('english'))

filtered\_words = [w for w in words if w.lower() not in stop\_words]

print(filtered\_words)

from nltk.stem import PorterStemmer

ps = PorterStemmer()

stems = [ps.stem(w) for w in filtered\_words]

print(stems)

from nltk.stem import WordNetLemmatizer

lemmatizer = WordNetLemmatizer()

lemmas = [lemmatizer.lemmatize(w) for w in filtered\_words]

print(lemmas)

pos\_tags = nltk.pos\_tag(words)

print(pos\_tags)