Stemmer

import nltk

from nltk.stem import PorterStemmer

#using porter stemmer you can always stem the word called from PorterStemmer

#poterstemmer librarty will help you to find the root word

from nltk.corpus import stopwords

paragraph = "AI, machine learning and deep learning are common terms in enterprise

IT and sometimes used interchangeably, especially by companies in their marketing materials.

But there are distinctions. The term AI, coined in the 1950s, refers to the simulation of human

intelligence by machines. It covers an ever-changing set of capabilities as new technologies

are developed. Technologies that come under the umbrella of AI include machine learning and

deep learning. Machine learning enables software applications to become more accurate at

predicting outcomes without being explicitly programmed to do so. Machine learning algorithms

use historical data as input to predict new output values. This approach became vastly more

effective with the rise of large data sets to train on. Deep learning, a subset of machine

learning, is based on our understanding of how the brain is structured. Deep learning's

```
use of artificial neural networks structure is the underpinning of recent advances
in Al,
        including self-driving cars and ChatGPT."
sentences = nltk.sent_tokenize(paragraph)
stemmer = PorterStemmer()
#import stopwords
# I want to remove all the stopwords from my senterences
# if you check the stopwords.words('english') you get a list of word which is not at all value
to the paragraph
# you do get stopwords in many language.
# after removing the stopwords i am going to stem the words by using portstemmer
# using for loop for all of sentences & using word_tokenize will convert all sentences to
words
# basically i am writhing for word in words and i am taking from unique word from
stopword.english
# Stemming
for i in range(len(sentences)):
  words = nltk.word_tokenize(sentences[i])
  words = [stemmer.stem(word) for word in words if word not in
set(stopwords.words('english'))]
  sentences[i] = ' '.join(words)
```