

```
In [1]: import nltk
nltk.download('punkt')
nltk.download('averaged_perceptron_tagger')
```

C:\Users\pronn\anaconda3\lib\site-packages\scipy__init__.py:155: UserWarning: A NumPy version >=1.18.5 and <1.25.0 is required for this version of SciPy (detected version 1.26.0

```
warnings.warn(f"A NumPy version >={np_minversion} and <{np_maxversion}")
[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\pronn\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data] C:\Users\pronn\AppData\Roaming\nltk_data...
[nltk_data] Unzipping taggers\averaged_perceptron_tagger.zip.
```

Out[1]: True

```
In [2]: from nltk.tokenize import word_tokenize
```

```
sentence = input("Enter a text: ")
words = word_tokenize(sentence)
```

Enter a text: We are living in an era where data is being generated at a significantly fast pace.

```
In [3]: from nltk import pos_tag
```

```
tags = pos_tag(words)
```

```
In [4]: import nltk
from nltk.tokenize import word_tokenize
from nltk import pos_tag

# Download NLTK data
nltk.download('punkt')
nltk.download('averaged_perceptron_tagger')

# Tokenize the sentence

words = word_tokenize(sentence)

# Perform part-of-speech tagging
tags = pos_tag(words)

# Print the tagged words and their tags
for word, tag in tags :
    print(f"{word} : {tag}")
```

We : PRP
are : VBP
living : VBG
in : IN
an : DT
era : NN
where : WRB
data : NN
is : VBZ
being : VBG
generated : VBN
at : IN
a : DT
significantly : RB
fast : JJ
pace : NN
. : .

```
[nltk_data] Downloading package punkt to  
[nltk_data] C:\Users\pronn\AppData\Roaming\nltk_data...  
[nltk_data] Package punkt is already up-to-date!  
[nltk_data] Downloading package averaged_perceptron_tagger to  
[nltk_data] C:\Users\pronn\AppData\Roaming\nltk_data...  
[nltk_data] Package averaged_perceptron_tagger is already up-to-  
[nltk_data] date!
```

```
In [5]: import nltk  
        from nltk.tokenize import word_tokenize  
        from nltk import pos_tag  
  
        # Download NLTK data  
        nltk.download('punkt')  
        nltk.download('averaged_perceptron_tagger')  
  
        # Tokenize the sentence  
  
        words = word_tokenize(sentence)  
  
        # Perform part-of-speech tagging  
        tags = pos_tag(words)  
  
        # Print the tagged words and their tags  
        for word, tag in tags :  
            print(f"{word} : {tag}")
```

We : PRP
are : VBP
living : VBG
in : IN
an : DT
era : NN
where : WRB
data : NN
is : VBZ
being : VBG
generated : VBN
at : IN
a : DT
significantly : RB
fast : JJ
pace : NN
. : .

```
[nltk_data] Downloading package punkt to  
[nltk_data]   C:\Users\pronn\AppData\Roaming\nltk_data...  
[nltk_data]   Package punkt is already up-to-date!  
[nltk_data] Downloading package averaged_perceptron_tagger to  
[nltk_data]   C:\Users\pronn\AppData\Roaming\nltk_data...  
[nltk_data]   Package averaged_perceptron_tagger is already up-to-  
[nltk_data]   date!
```