

## Demo of Spacy Package

```
[2]: import spacy

[3]: spacy.about

[3]: <module 'spacy.about' from 'D:\\iu-training\\Introduction-to-AL-and-ML\\Source-code AI\\spacy-package\\myenv\\Lib\\site-packages\\spacy\\about.py'>

[4]: spacy.__version__

[4]: '3.8.7'

[5]: spacy.load('en_core_web_sm')

[5]: <spacy.lang.en.English at 0x1eee7accf20>

[6]: ### Our Steps of Tokensization are : Corpus > documnets > words > vocabularly

[10]: corpus = ''' Mr. Shahrukh Likes the Vadapav of Mumbai. And Mr. Salman Khan Like Chaat of the New Delhi'''

[11]: print('My Corpus:',corpus)

My Corpus: Mr. Shahrukh Likes the Vadapav of Mumbai. And Mr. Salman Khan Like Chaat of the New Delhi

[19]: nlp = spacy.load('en_core_web_sm') # using english model in spacy for nlp. : Object it is a class.

[13]: documents = nlp(corpus)

[14]: print('documents or sentences :',documents)

documents or sentences : Mr. Shahrukh Likes the Vadapav of Mumbai. And Mr. Salman Khan Like Chaat of the New Delhi

[15]: print('documents or sentences :',documents.sents)

documents or sentences : <_cython_3_1_1.generator object at 0x000001EEE9B69990>

[16]: for sentence in documents.sents:
    print(sentence)

Mr. Shahrukh Likes the Vadapav of Mumbai.
And Mr. Salman Khan Like Chaat of the New Delhi

[17]: sentences_list = [sentence for sentence in documents.sents]

[18]: print(sentences_list)

[ Mr. Shahrukh Likes the Vadapav of Mumbai., And Mr. Salman Khan Like Chaat of the New Delhi]

•[24]: words = []
for sentence in documents.sents:
    #print(sentence)
    for word in sentence:
        #print(word)

Mr.
Shahrukh
Likes
the
Vadapav
of
Mumbai
.
And
Mr.
Salman
Khan
Like
Chaat
of
the
New
Delhi

[34]: words = []
for sentence in documents.sents:
    #print(sentence)
    for word in sentence:
        words.append(str(word).lower())
```

```
[35]: print('words:',words)
words: [ ' ', 'mr.', 'shahrukh', 'likes', 'the', 'vadapav', 'of', 'mumbai', '.', 'and', 'mr.', 'salman', 'khan', 'like', 'chaat', 'of', 'the', 'new', 'delhi']

[36]: print('type of words',type(words[0]))
type of words <class 'str'>

[37]: print('type of words',type(words[0]))
type of words <class 'str'>

[39]: print('len of words :',len(words))
len of words : 19

[40]: vocabs = set(words)

[41]: print('vocabs or unique word',vocabs)
vocabs or unique word {'likes', 'salman', 'vadapav', 'chaat', 'khan', ' ', 'mumbai', 'new', 'shahrukh', 'mr.', '.', 'and', 'like', 'delhi', 'of', 'the'}

[43]: print('len of vocabs:',len(vocabs))
len of vocabs: 16
```

