

Week-9

notebook

1. ^oimport nltk

import nltk
from nltk.tokenize import word_tokenize
import nltk
pos-tag

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from A impost Po

from nltks . ~~impost~~ impost Poststemma
from nltks . stem impost Poststemma
from nltks . ~~impost~~ impost Poststemma

from nltk - sem import StopWords
from nltk.corpus import wordnet

from *alk.* *corpus* *improbat* *scop*
from *alk.* *stem* *improbat* *wordnet* *hemmatza*

2. `x = open("content/testdoc.txt").read()`

3.2

3. χ
→ Artificial Intelligence (AI) & Machine Learning (ML): In ML--

4. import netto

4. import nltk
nltk.download('punkt=tab')

→ [nlth-date] (Downloady -

[nltk_data] Unzipping tokenizers

True

5. # Tokeng abim

~~tokens = word_tokenize(a)~~

print (tokens).

→ ['Artificial', 'Intelligence', 'C', 'AI', 'D', 'F',
'Machine', 'Learning']

6. `import nltk`
`nltk.download('averaged-perceptron-taggers-eng')`

↳ `[nltk_data]` Downloading package
`[nltk_data]` /root/nltk_data
`[nltk_data]` unzipping tagged-avg-perceptron-
true

7. # POS Tagging
`postags = pos_tag(tokens)`
`print(postags)`

↳ `[('Artificial', 'JJ'), ('Intelligence', 'NNP'), ('is', 'VBZ'), ('a', 'DT'), ('type', 'NN'), ('of', 'IN'), ('machine', 'NN'), ('learning', 'NN'), ('.', '.')]`

8. `import nltk`
`nltk.download('stopwords')`
↳ `[nltk_data]` Downloading
`[nltk_data]` Unzipping
true

9. # Removing Stop Words

`stop_words = set(stopwords.words('english'))`

`print(stop_words)`

↳ `{',', 're', 'se', 'by', 'dory', 'about', 've', 's'}`

10. li = []

for words in tokens:

if words not in stop words:

li.append(words)

print(li)

↳ ['Artificial', 'Intelligence', '(', 'AI', ')', '...', '']

11. import nltk

nltk.download('wordnet')

↳ [nltk-data] (Downloading package wordnet is not/4k...
-true

12. # Lemmatization

wl = WordNetLemmatizer()

lemnist = []

for words in li:

lemnist.append([words, wl.lemmatize(words)])

print(lemnist)

↳ [['Artificial', 'Artificial'], ['Intelligence', 'Intelligence'],
['(', '('], ['AI', 'AI'], [')', ')'],
['&', '&'], ['Machine', 'Machine'], ['Learning', 'Learning'],
['ML', 'ML'],
..., '']