



Vidya Vikas Education Trust's
Universal College of Engineering, Kaman Road, Vasai-401208
Accredited B+ Grade by NAAC

Experiment 6

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Date of Practical Performed: -

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& Marks

Aim: Write a program to perform Part of Speech(POS) Tagging

Theory:

POS Tagging (Parts of Speech Tagging) is a process to mark up the words in text format for a particular part of a speech based on its definition and context. It is responsible for text reading in a language and assigning some specific token (Parts of Speech) to each word. It is also called grammatical tagging.

Let's learn with a NLTK Part of Speech example:

Input: Everything to permit us.

Output: [('Everything', NN), ('to', TO), ('permit', VB), ('us', PRP)]

NLTK POS Tags Examples are as below:

Abbreviation	Meaning
CC	coordinating conjunction
CD	cardinal digit
DT	determiner
EX	existential there
FW	foreign word
IN	preposition/subordinating conjunction
JJ	This NLTK POS Tag is an adjective (large)
JJR	adjective, comparative (larger)
JJS	adjective, superlative (largest)
LS	list marker
MD	modal (could, will)



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NN	noun, singular (cat, tree)
NNS	noun plural (desks)
NNP	proper noun, singular (sarah)
NNPS	proper noun, plural (indians or americans)
PDT	predeterminer (all, both, half)
POS	possessive ending (parent\ 's)

PRP	personal pronoun (hers, herself, him, himself)
PRP\$	possessive pronoun (her, his, mine, my, our)
RB	adverb (occasionally, swiftly)
RBR	adverb, comparative (greater)
RBS	adverb, superlative (biggest)
RP	particle (about)
TO	infinite marker (to)
UH	interjection (goodbye)
VB	verb (ask)
VBG	verb gerund (judging)
VBD	verb past tense (pleaded)
VBN	verb past participle (reunified)
VBP	verb, present tense not 3rd person singular(wrap)
VBZ	verb, present tense with 3rd person singular (bases)
WDT	wh-determiner (that, what)
WP	wh- pronoun (who)



WRB	wh- adverb (how)
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Code:

```
import spacy
nlp = spacy.load("en_core_web_sm")
text="the puick brown fox jumps over the lazy dog"
doc = nlp(text)
for token in doc:
    print(F"{token.text}:{token.pos_}")
```

Output:

```
the:DET
puick:ADJ
brown:ADJ
fox:NOUN
jumps:VERB
over:ADP
the:DET
lazy:ADJ
dog:NOUN
```

Conclusion: -

Thus, We have examined and learned Part of speech tagging.