AI LAB 11

IMPLEMENTATION OF NLP – TAGGING A PART OF SPEECH

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WORKING PRINCIPLE:

In natural language processing, human language is separated into fragments so that the grammatical structure of sentences and the meaning of words can be analyzed and understood in context.

• **Part-of-speech-tagging**: marking up words as nouns, verbs, adjectives, adverbs, pronouns, etc

In python the availability of nltk makes the working of nlp very easy and efficient.

The word tokeniser splits the given sentence into words and then the pos_tag helps in identification of the parts of speech and tag them accordingly.

SOURCE CODE:

from nltk.tokenize import word_tokenize

sagan_quote = """If you wish to make an apple pie from scratch, you must first
invent the universe."""

words_in_sagan_quote = word_tokenize(sagan_quote)

import nltk

nltk.pos_tag(words_in_sagan_quote)

#Tagging the parts of speech

OUTPUT:

```
In [1]: from nltk.tokenize import word_tokenize
    sagan_quote = """If you wish to make an apple pie from scratch, you must first invent the universe."""
    words_in_sagan_quote = word_tokenize(sagan_quote)

In [2]: import nltk
    nltk.pos_tag(words_in_sagan_quote)
    #ragging the parts of speech

Out[2]: [('If', 'IN'),
    ('you', 'PRP'),
    ('wish', 'VBP'),
    ('imake', 'VB'),
    ('an', 'DT'),
    ('apple', 'NN'),
    ('pie', 'NN'),
    ('pie', 'NN'),
    ('scratch', 'NN'),
    ('you', 'PRP),
    ('must', 'MD'),
    ('first', 'VB'),
    ('invent', 'VB'),
    ('invent', 'VB'),
    ('inverse', 'NN'),
    ('invent', 'VB')
```

RESULT: Hence, the implementation of NLP was successfully done.