St. Francis Institute of Technology
Department of Computer Engineering

Academic Year: 2021-2022   Semester: VIII

Subject: Natural Language Processing   Class/Branch/: BE/CMPNA

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Aim : To implement the Named Entity Recognition System

```
import spacy.cli
spacy.cli.download("en_core_web_sm")
```

✓ Download and installation successful
You can now load the model via spacy.load('en_core_web_sm')

```
nlp = spacy.load('en_core_web_sm')
sentence = "Apple is looking at buying U.K. startup for $1 billion"
doc = nlp(sentence)
for ent in doc.ents:
    print(ent.text, ent.start_char, ent.end_char, ent.label_)
```

```
Apple 0 5 ORG
U.K. 27 31 GPE
$1 billion 44 54 MONEY
```

```
nlp = spacy.load('en_core_web_sm')
sentence = "George Washington is the first president of US"
doc = nlp(sentence)
for ent in doc.ents:
    print(ent.text, ent.start_char, ent.end_char, ent.label_)
```

```
George Washington 0 17 PERSON
first 25 30 ORDINAL
US 44 46 GPE
```

```
sentence = "Rafael Nadal is the king of clay."
doc = nlp(sentence)
for ent in doc.ents:
    print(ent.text, ent.start_char, ent.end_char, ent.label_)
```

```
Rafael Nadal 0 12 PERSON
```

```python
sentence = "Narendra Modi is the Prime Minister of India."
doc = nlp(sentence)
for ent in doc.ents:
    print(ent.text, ent.start_char, ent.end_char, ent.label_)
```

```
 Narendra Modi 0 13 PERSON
 India 39 44 GPE
```

```python
sentence = "Mark Zuckerberg is one of the founders of Facebook, a company from the United Sta
doc = nlp(sentence)
for ent in doc.ents:
    print(ent.text, ent.start_char, ent.end_char, ent.label_)
```

```
 Mark Zuckerberg 0 15 PERSON
 one 19 22 CARDINAL
 Facebook 42 50 ORG
 the United States 67 84 GPE
```