NLP Pipeline

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Focus on steps - (not on the sequence)

Natural Language Processing Pipeline



Credit : 7 Turing

Step#D Sentence Segmentation

- it is the very first step in NLP pipeline.
- divides the entire paragraph into different sentences for better understanding.

London is the capital and most populous city of England and the United Kingdom/ Standing on the River Thames in the southeast of the island of Great Britain, London has been a major settlement for two millennia. It was founded by the Romans, who named it Londinium.

source: wikipedia

sentence segmentation

- London is the capital and most populous city of England and the United Kingdom.
- Standing on the River Thames in the southeast of the island of Great Britain, London has been a major settlement for two millennia. /
- 3. It was founded by the Romans, who named it Londinium.

step+@ Word Tokenization

- it is the process of splitting a text into individual words or tokens.

Sentence: I love NLP

motals or Tokens.

Sentence: I love NLP

word tokens: ["I", "love", "NLP"]

Note: It is a crucial step as it transforms raw text data into a formant that can be processed by MUAN algorithms

SUbword tokens:

- a technique to handle out-q-vocabulary words by breaking them into smaller but meaningful units.

for sentement analysis:

2017 - my first baby project > I am unparty with you.

vords: unhappiness, unwell

Subword tokens: ["un", "happinese"]

character tokens:

- In some cases, to kenization is done at the characters level. where each token is a single characters'

word: cat

character token: ['c", "a", "E"]

th, dr: too long, didn't read

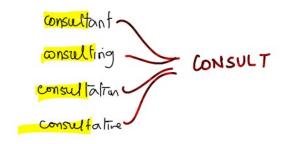
- it is a short hand used on the internet to

Summarize long content, articles etc. into a

brief, digestible form.

Step#3 Stemming





stemming is a text normalization technique to reduce the words to their base or root form known as stem.