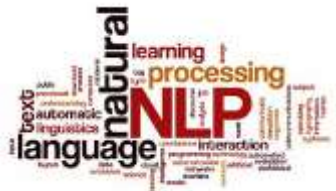


Python NLP libraries



Python NLP libraries

- Due to the development of useful NLP libraries, today, NLP is finding applications across the various parallels of the industrial landscape.
- The fundamental aim of NLP libraries is to simplify text preprocessing.
- An NLP library should have a simple-to-learn API, and it must be able to implement the latest and greatest algorithms and models efficiently.
- There are numerous NLP libraries designed for specific NLP applications.

Some Python NLP libraries

- NLTK
- TextBlob
- Stanford CoreNLP
- spaCy
- gensim

NLTK

- Most famous Python NLP library
- responsible for conquering many text analysis problems
- popular for education and research.
- NLTK has over 50 corpora and lexicons, 9 stemmers, and dozens of algorithms to choose from.

TextBlob

- TextBlob is based on NLTK and another package called Pattern.
- TextBlob makes text processing very simple by providing an intuitive interface to NLTK.
- Has a gentle learning curve while boasting a surprising amount of functionality.

Stanford CoreNLP

Stanford CoreNLP is a suite of production-ready natural analysis tools.

It includes part-of-speech (POS) tagging, entity recognition, pattern learning, parsing, and much more.

actually written in Java, not Python.

spaCy

- It's marketed as an “industrial-strength” Python NLP library that's geared toward performance.
- SpaCy is minimal and opinionated, and it doesn't have options like NLTK does.
- Its philosophy is to only present one algorithm (the best one) for each purpose.
- You don't have to make choices.
- it's built on Cython

TextBlob

- We will be using TextBlob