

Sentiment

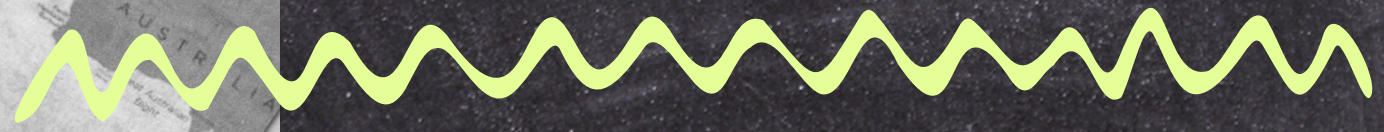
Analysis





Natural Language Processing

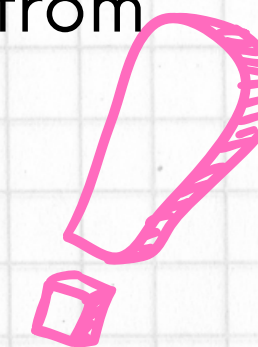
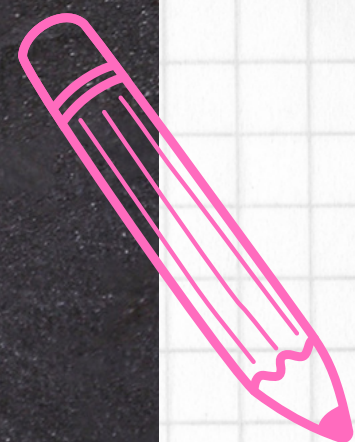
Natural Language Processing, which is a part of Computer Science, Human language, and Artificial Intelligence. It is the technology that is used by machines to understand, analyse, manipulate, and interpret human's languages. It helps developers to organize knowledge for performing tasks such as translation, automatic summarization, Named Entity Recognition (NER), speech recognition, relationship extraction, and topic segmentation.





Advantages

1. NLP helps users to ask questions about any subject and get a direct response within seconds.
2. NLP offers exact answers to the question means it does not offer unnecessary and unwanted information.
3. NLP helps computers to communicate with humans in their languages.
4. It is very time efficient.
5. Most companies use NLP to improve the efficiency of documentation processes, accuracy of documentation, and identify the information from large databases.





Disantages

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1. NLP may not show context.
 2. NLP is unpredictable.
 3. NLP is unable to adapt to the new domain, and it has a limited function that's why NLP is built for a single and specific task only.
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Application

Sentimental Analysis

Sentiment Analysis is also known as opinion mining. It is used on the web to analyze the attitude, behavior, and emotional state of the sender. This application is implemented through a combination of NLP (Natural Language Processing) and statistics by assigning the values to the text (positive, negative, or neutral), and identifying the mood of the context (happy, sad, angry, etc.)

Application



Speech Recognition

Speech recognition is used for converting spoken words into text. It is used in applications, such as mobile, home automation, video recovery, dictating to Microsoft Word, voice biometrics, voice user interface, and so on.

Information extraction

Information extraction is one of the most important applications of NLP. It is used for extracting structured information from unstructured or semi-structured machine-readable documents.



Machine translation

Machine translation is used to translate text or speech from one natural language to another natural language.

Libraries



gensim

spaCy

THANK
YOU

