

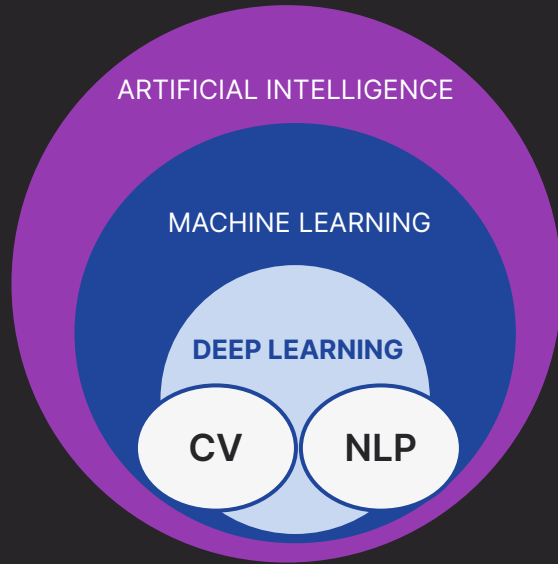
The background of the slide is a dark gray to black gradient, overlaid with a complex, abstract network of white lines and dots. These dots, representing nodes, vary in size and are interconnected by thin, light gray lines, creating a web-like structure that spans the entire frame. The density of the network is higher in the upper right and lower right areas, while the left side is more sparse.

Introduction to NLP

Video 1: What is NLP ?

In Air

Introduction



Linguistics

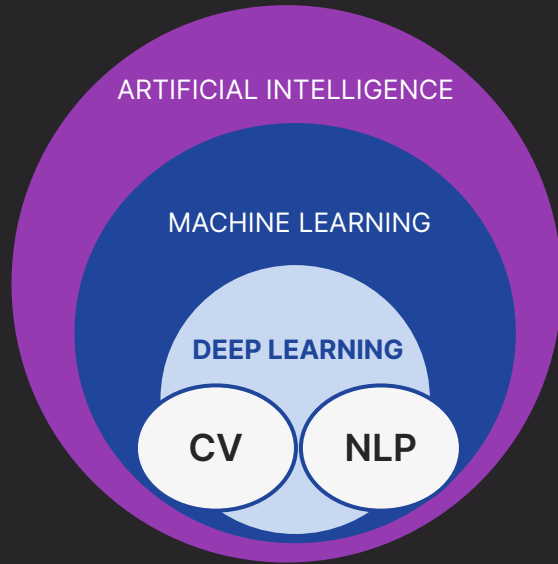


Computer Science



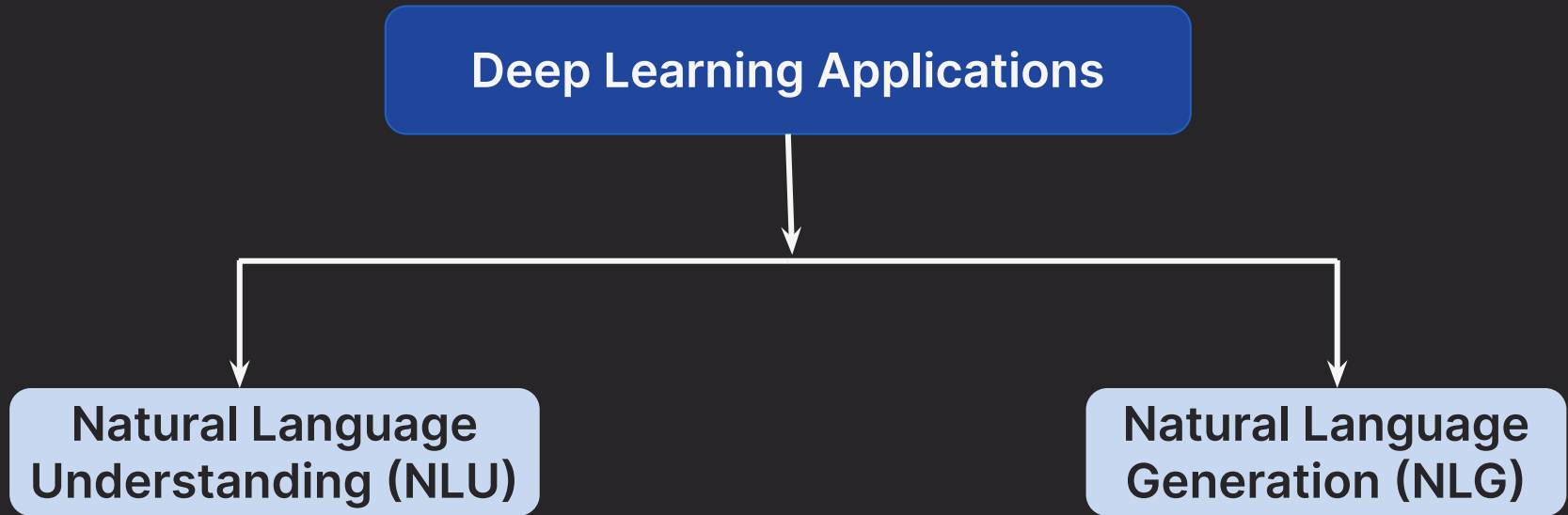
Artificial intelligence

Introduction

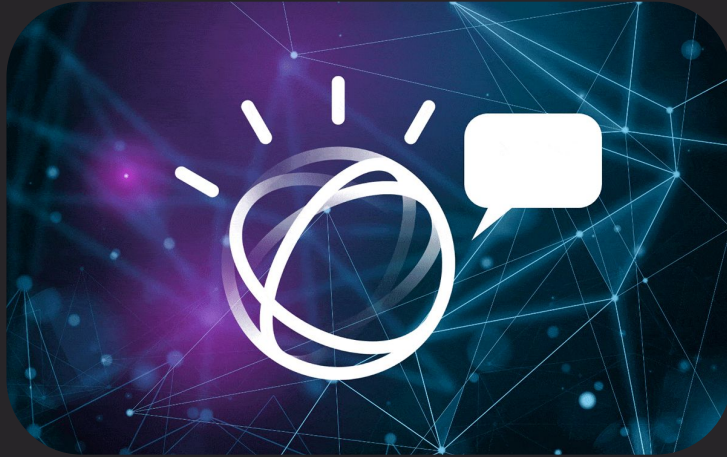


NLP enables computers to **understand**, **interpret** and **respond** to human languages or text data.

Categories of NLP



1. Natural Language Understanding (NLU)



Ability of a machine to **understand** and **interpret human language** the way it is spoken or written.

For example :

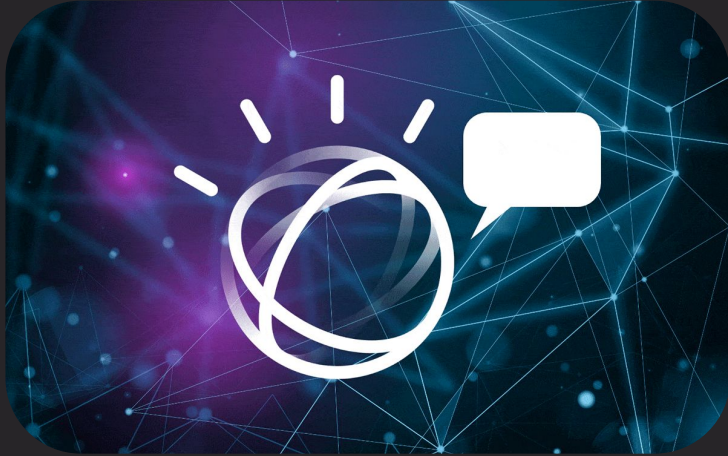


River bank



Bank

1. Natural Language Generation (NLG)



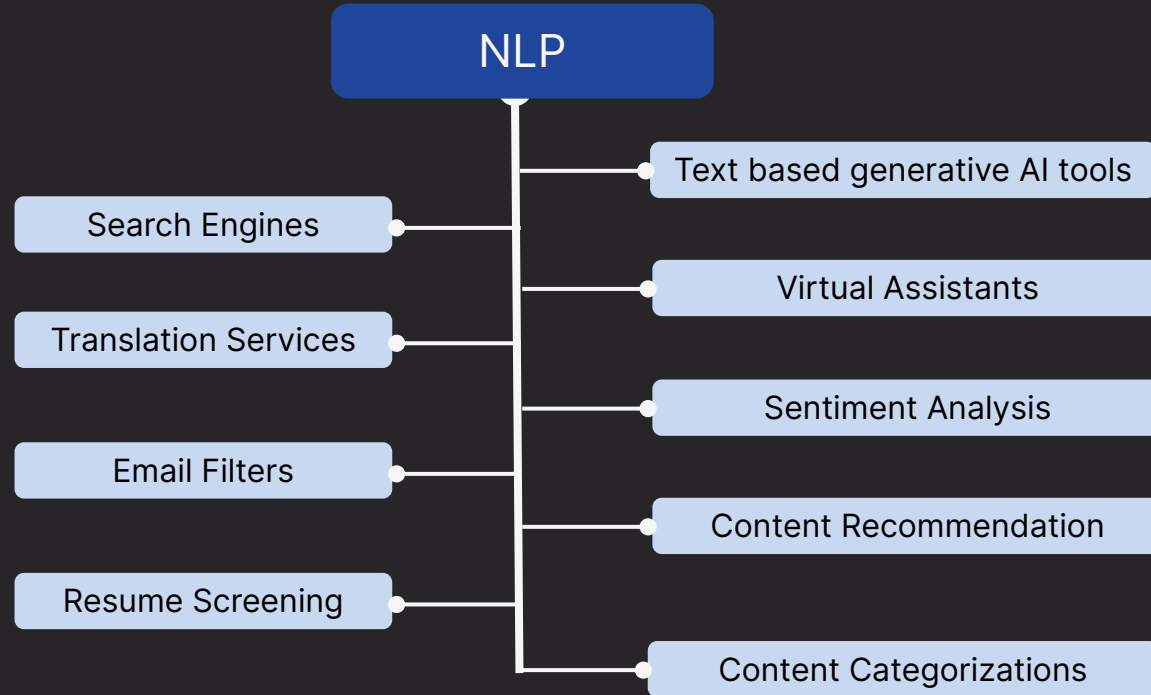
Ability of a machine to **generate unique human-like text or speech.**

For example :

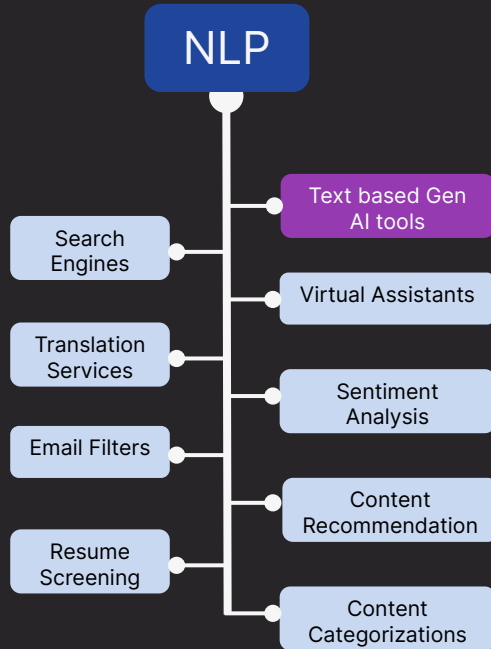


chatbots

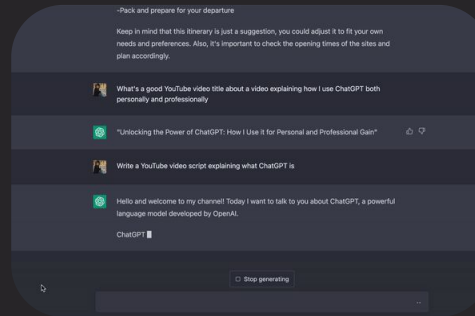
Applications of NLP



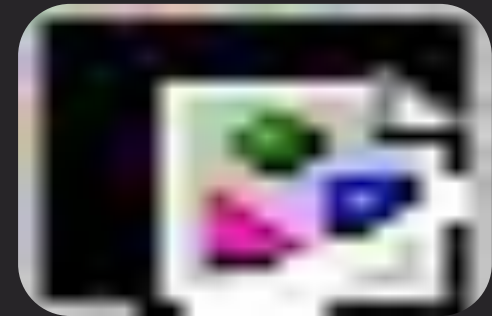
1. Text Based Generative AI tools



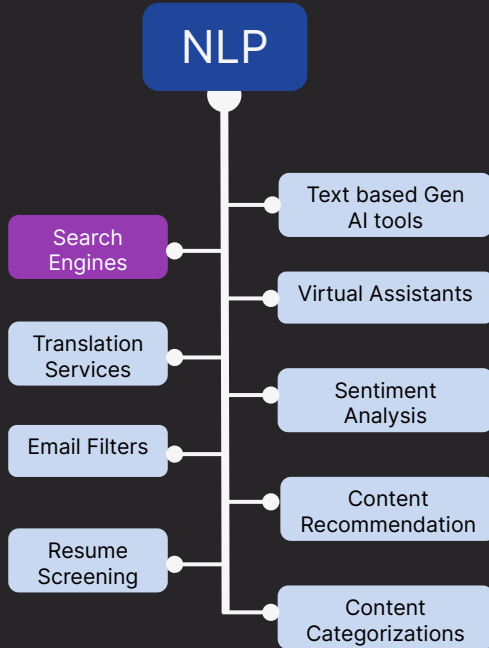
ChatGPT



Google BARD



2. Search Engines



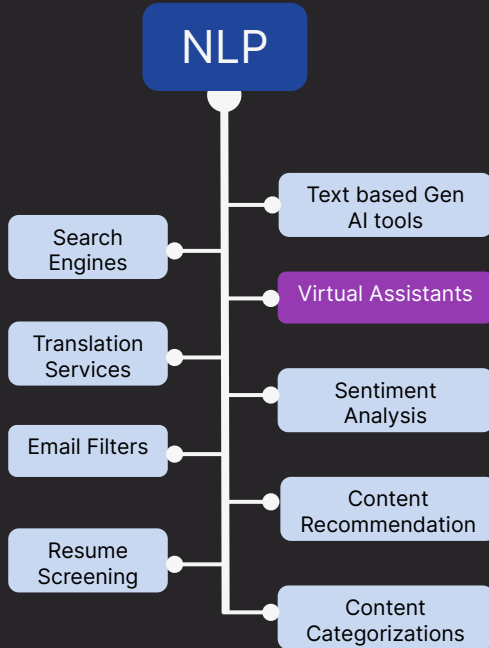
Google Chrome



Yahoo Search

Yahoo!

3. Virtual Assistants



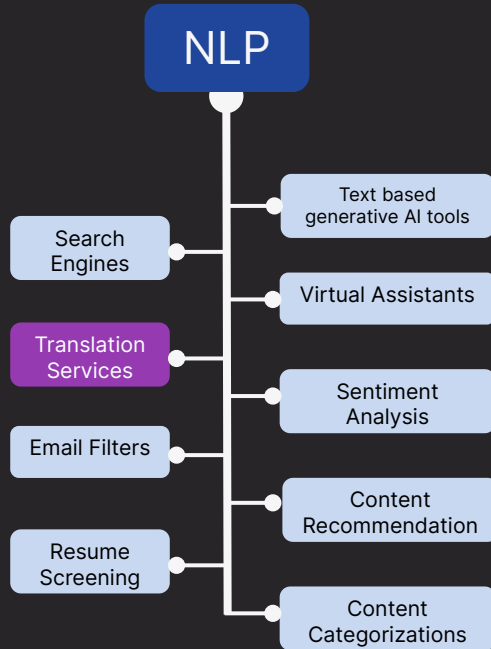
Google Assistants



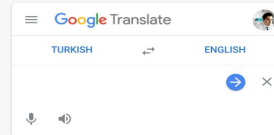
Virtual Assistants



4. Translation Services



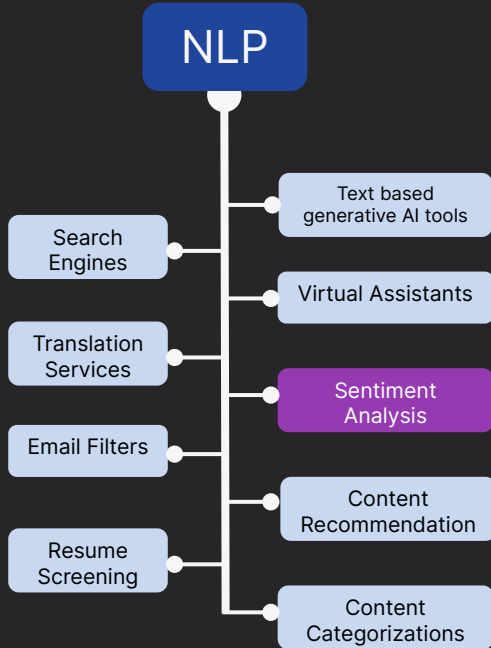
Google Translate



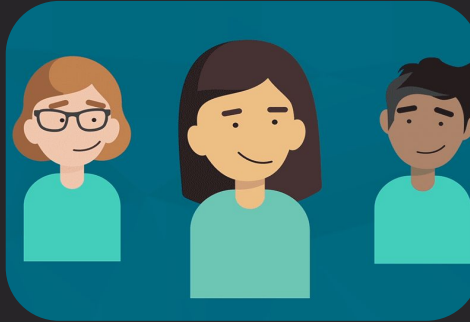
Text to Speech



5. Sentiment Analysis



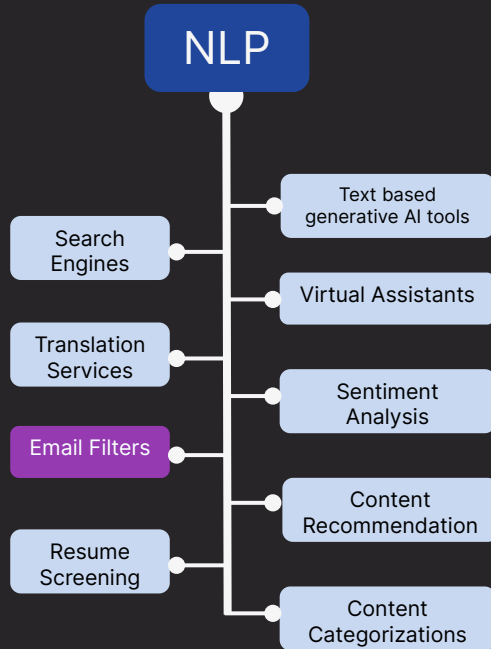
Customer Feedback



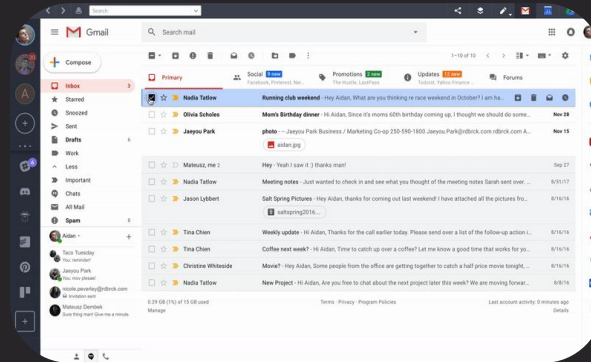
Social Media Conversation



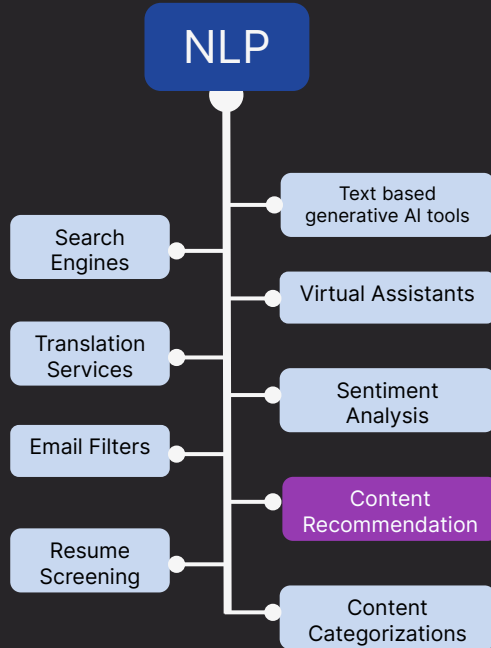
6. Email Filters



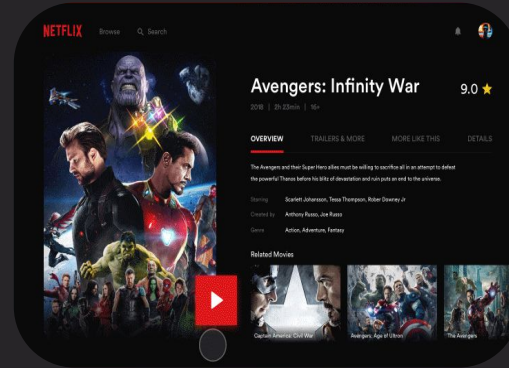
Spam email



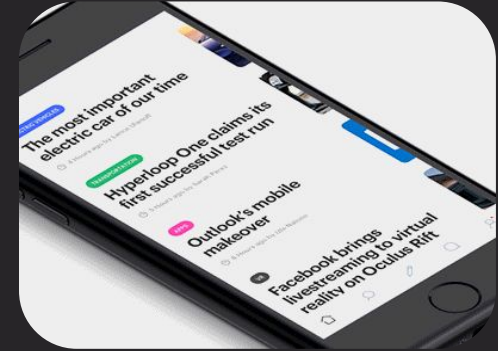
7. Content Recommendation



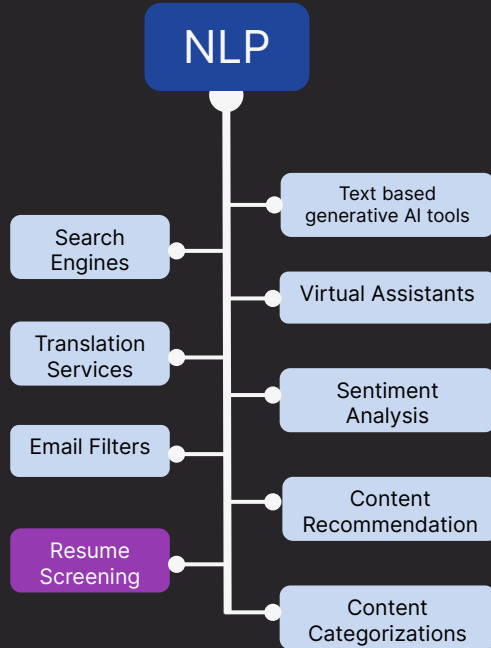
Netflix



News Aggregators



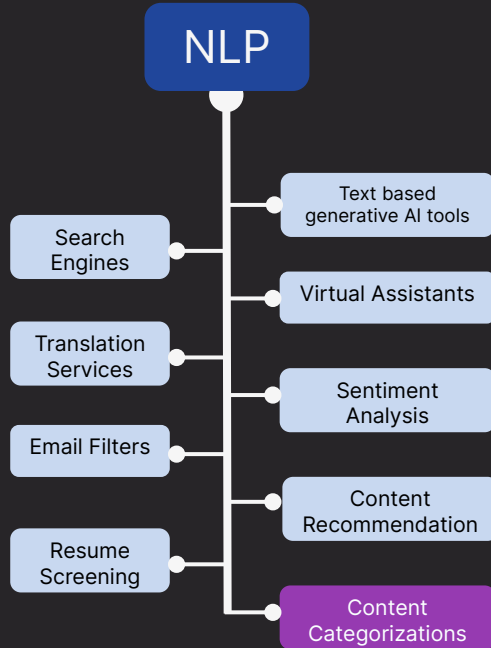
8. Resume Screening



Resume as per Job requirements



9. Content Categorization



Applications of NLP

