Introduction to NLP
Video 1: What is NLP ?
Analytics Vidhya

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In Air

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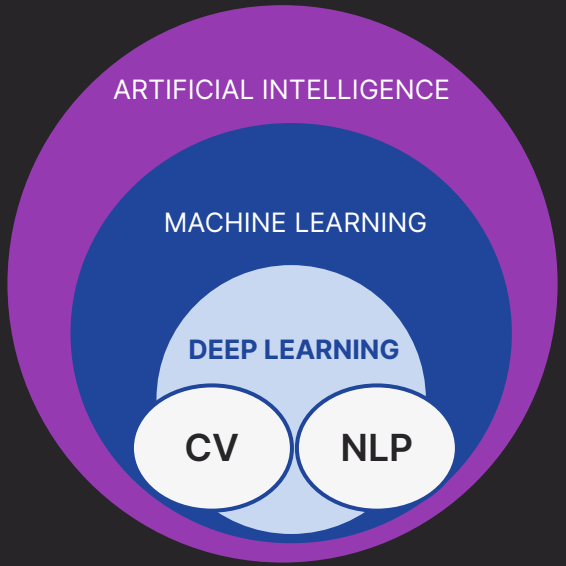
Introduction

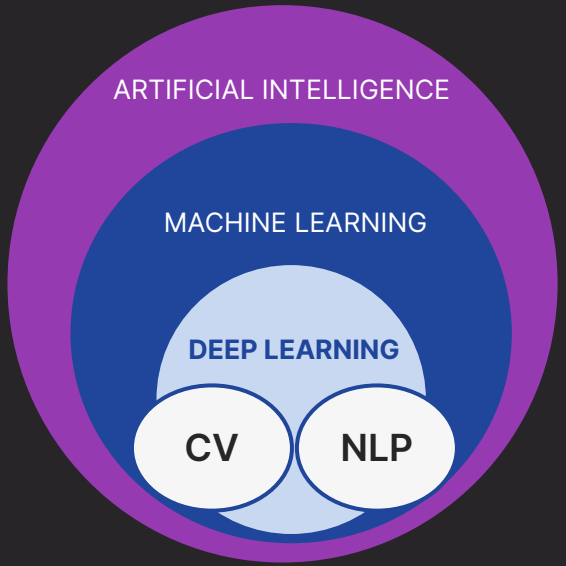


Linguistics

Computer Science

Artificial intelligence

Introduction



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

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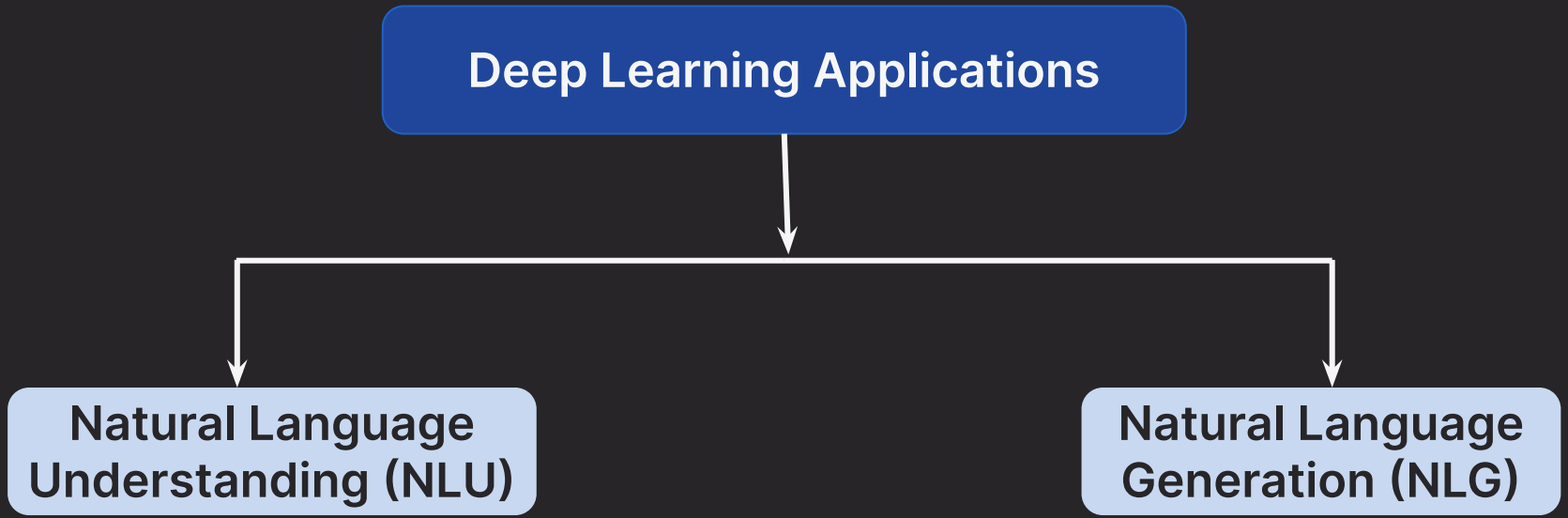
Categories of NLP



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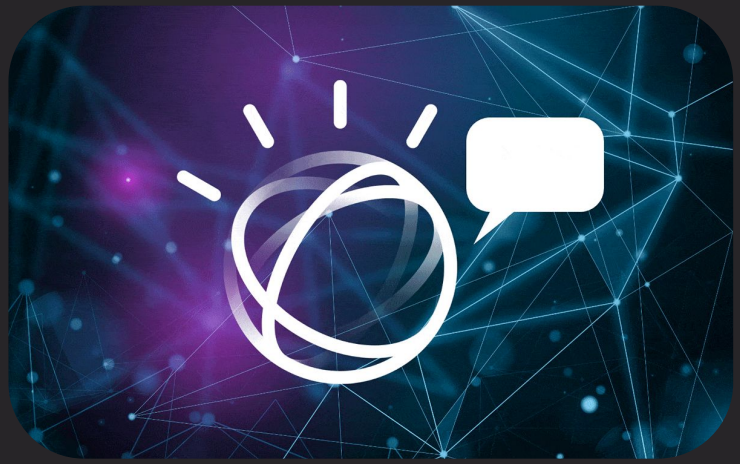
1. Natural Language Understanding (NLU)



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

For example :

River bank

Bank

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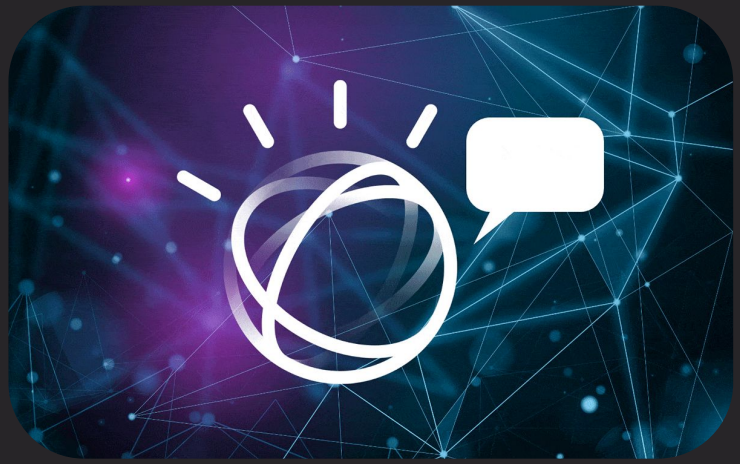
1. Natural Language Generation (NLG)

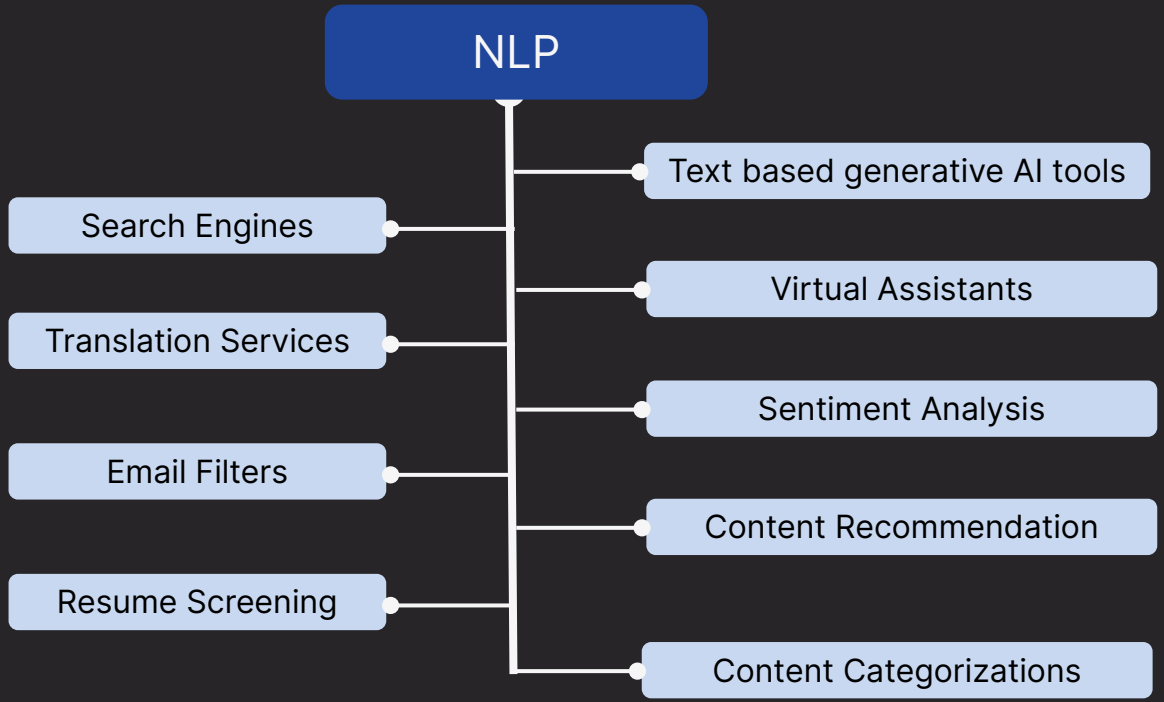


Ability of a machine to **generate unique human-like text or speech.**

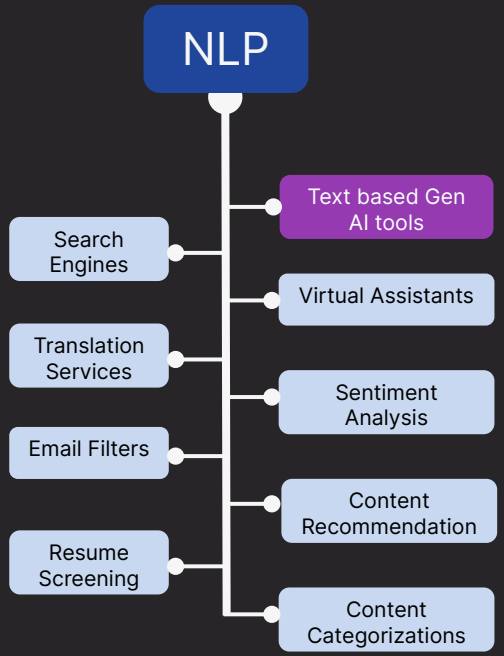
For example :

chatbots

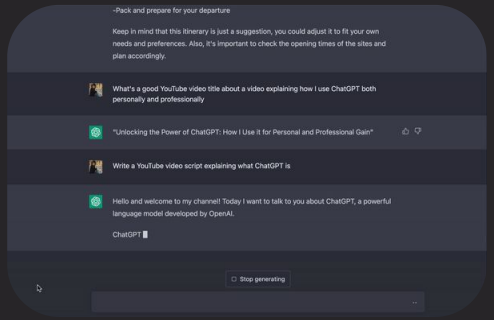
Applications of NLP



1. Text Based Generative AI tools

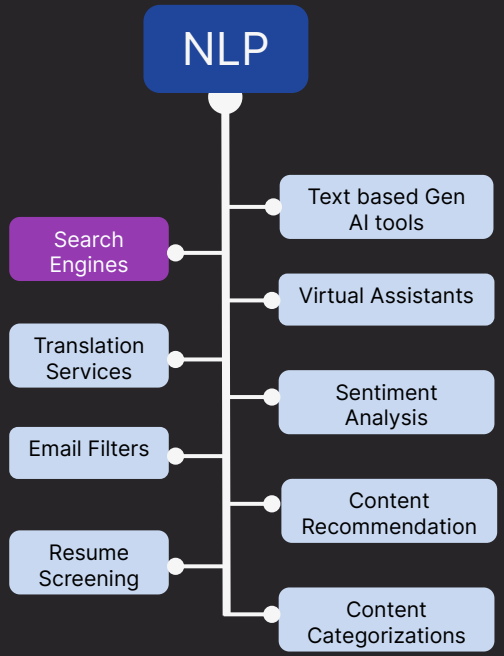


ChatGPT



Google BARD

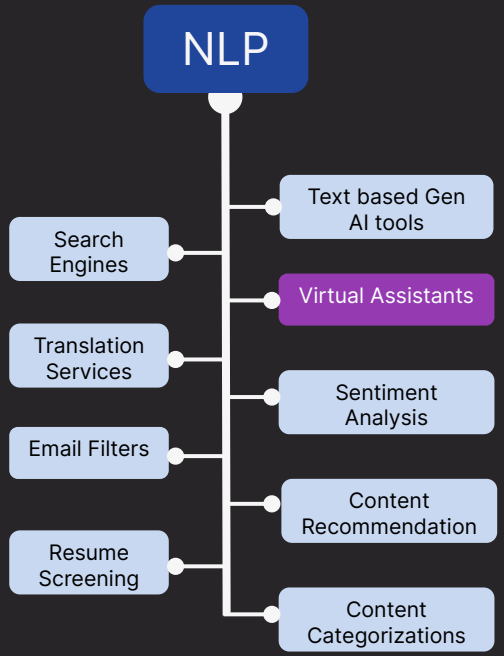
2. Search Engines



Google Chrome

Yahoo Search

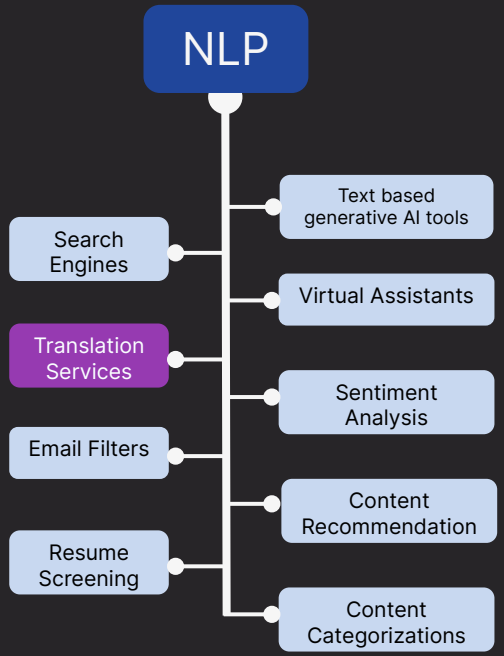
3. Virtual Assistants



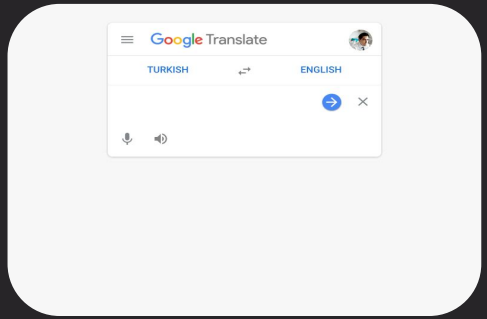
Google Assistants

Virtual Assistants

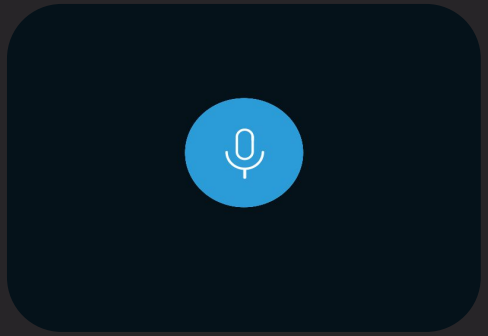
4. Translation Services



Google Translate



Text to Speech



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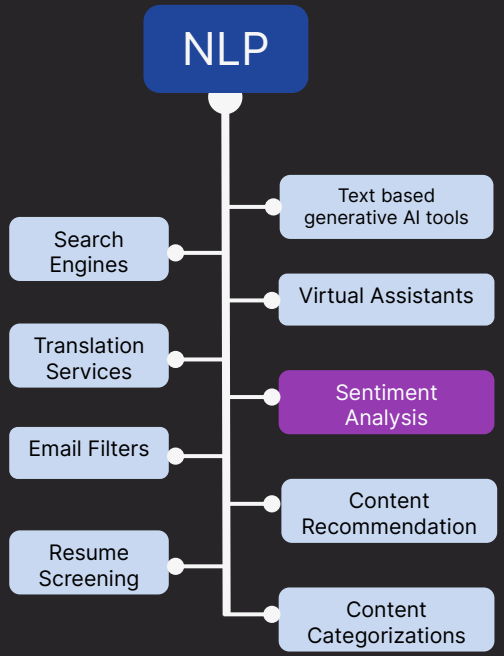
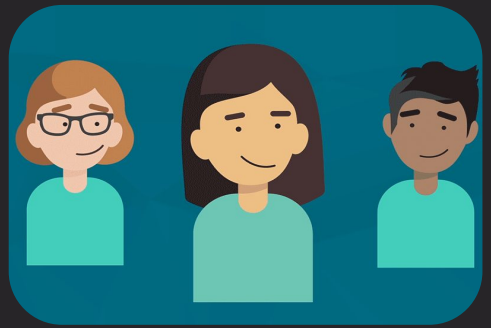
5. Sentiment Analysis

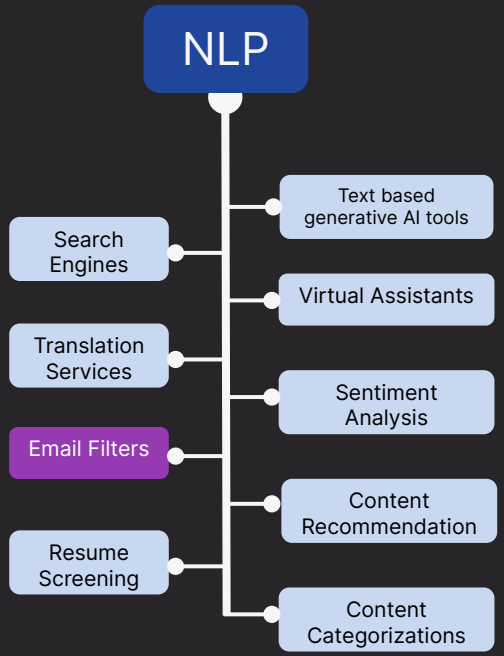


Customer Feedback

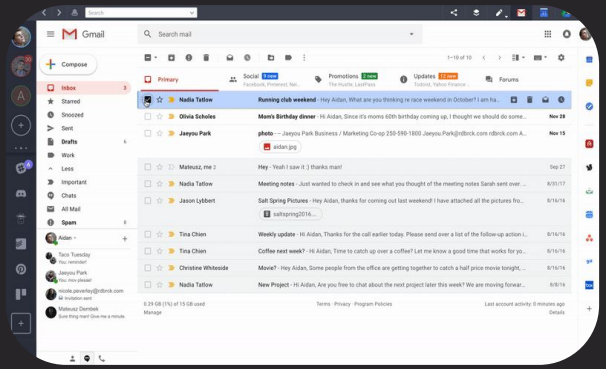


Social Media Conversation

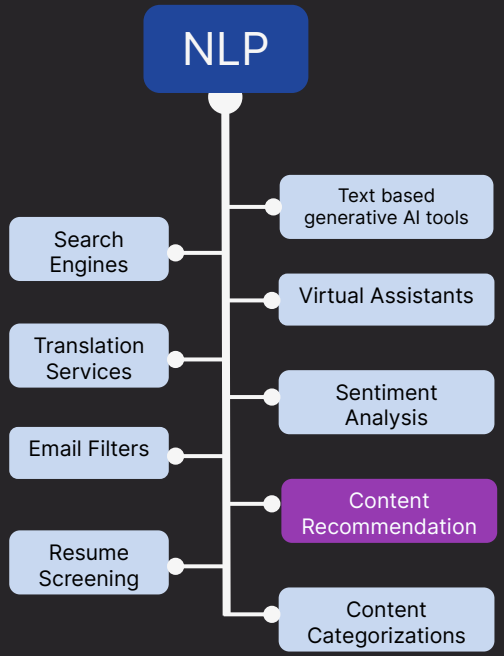
6. Email Filters



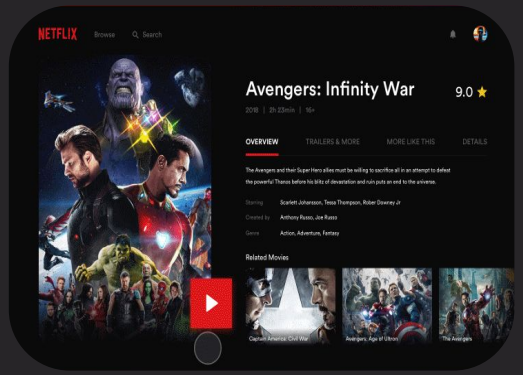
Spam email



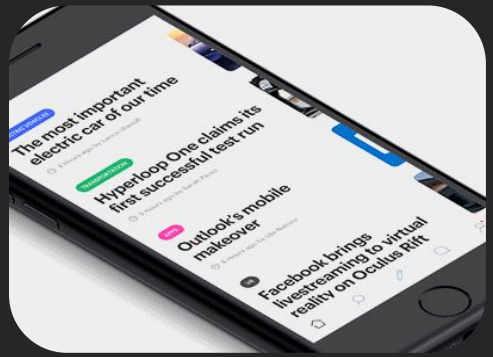
7. Content Recommendation



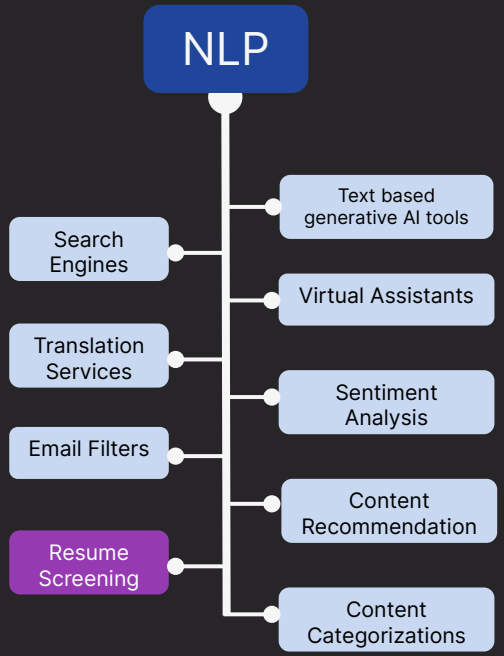
Netflix



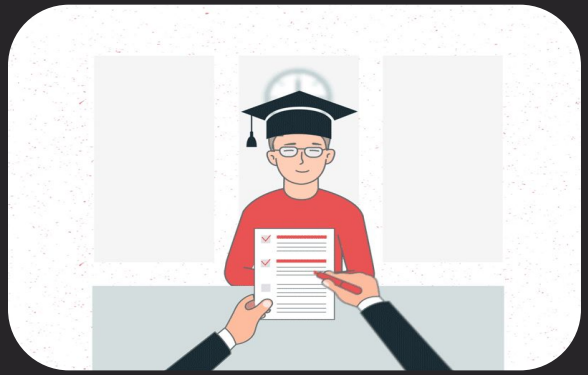
News Aggregators



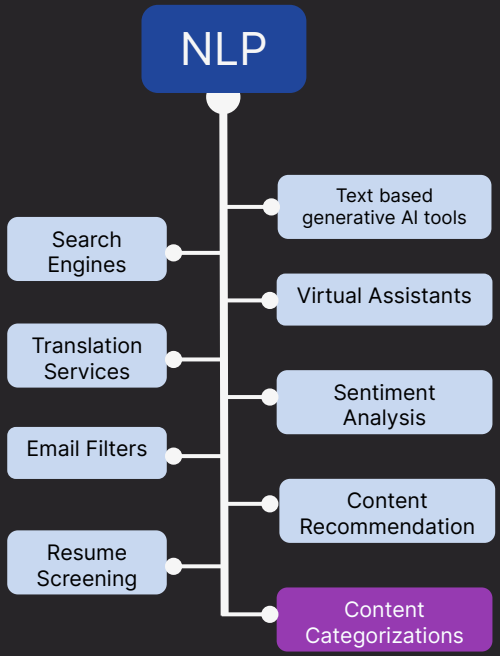
8. Resume Screening



Resume as per Job requirements

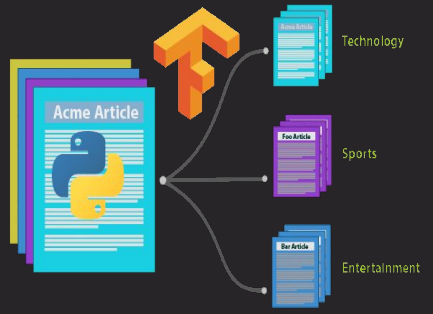
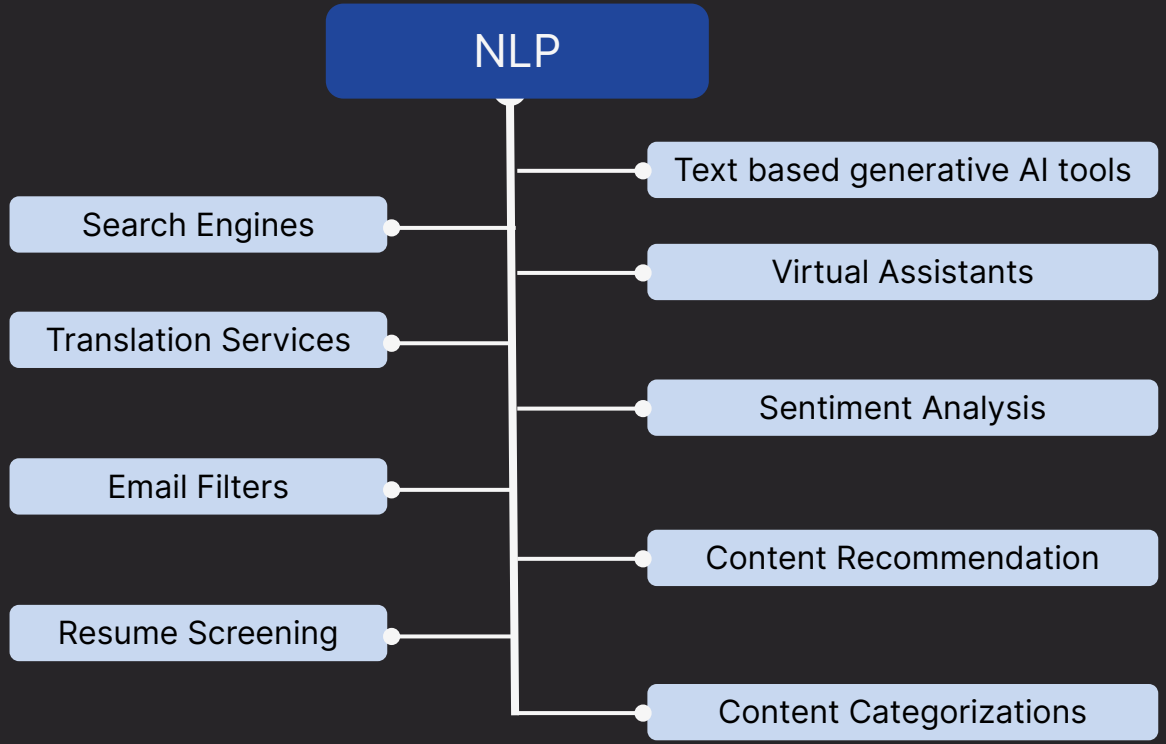


9. Content Categorization



News Article

Academic papers



Applications of NLP