

# NLP Applications

## 1. Sentiment Analysis:

- **Application:** Analyzing sentiment in text data to determine positive, negative, or neutral sentiment.

## 2. Named Entity Recognition (NER):

- **Application:** Identifying and classifying entities (e.g., persons, organizations, locations) in text.

## 3. Text Summarization:

- **Application:** Generating concise summaries of longer text documents.

## 4. Text Generation - Chatbot Training:

- **Application:** Creating models that can generate human-like responses in a conversation.

## 5. Language Translation:

- **Application:** Translating text from one language to another.

## 6. Speech Recognition:

- **Application:** Converting spoken language into written text.

## 7. Text Clustering - Document Similarity:

- **Application:** Grouping similar documents together based on their content.

## 8. Fake News Detection:

- **Application:** Identifying fake or misleading information in news articles.