

Natural Language Processing

- How human communicate with each other
- Computer should replicate the same thing

Applications of NLP

- Speech Recognition (Google Assistant, Apple Siri)
- Sentimental Analysis (Movies Rating)
- Machine Translator
- Chatbots etc.

Input data – Speech Recognition – NLU – NLG – output data

NLU

- What do the users say? their intent? Meaning?

Challenges

- Lexical Ambiguity
- Syntactic Ambiguity (structure)
- Semantic Ambiguity
- Pragmatic Ambiguity

Examples –

- The tank was full of water
- Old men and women were taken to safe place.
- The car hit the pole while it was moving.
- The police are coming.

NLG

- It should be intelligent.
- Deal with Structured data
- Text/ Sentence Planning.

