- NLP stands for Natural Language Processing: the application of computational techniques to the analysis and synthesis of natural language and speech.
- It's the use of different techniques from computer science to understand and manipulate human language and speech.
- Our focus here is on analyzing text data. This can be anything: from speeches, conversations, online reviews, tweets, written documents, etc.

- The main challenge of NLP is ambiguity.
- This is largely due to polysemy and homonymy: Words that may seem unique can have different meanings depending on the context in which they are being evaluated.
 - Polysemy: "face" can mean the front of your head or confronting something.
 - Homonymy: "lie" can mean an untrue statement or a resting position.
- We can have words with different meanings in the same sentence depending on the way we interpret these words.
- This happens because of the difference between signifier (the way we represent the information, word) and signified (the meaning of that information, concept).

- Homonymy: "Tie" can mean an untrue statement or a resting position Homonymy:
- We can have words with different meanings in the same sentence depending on the way we interpret these words.
- This happens because of the difference between signifier (the way we represent the information, word) and signified (the meaning of that information, concept).