Ambiguities in NLP
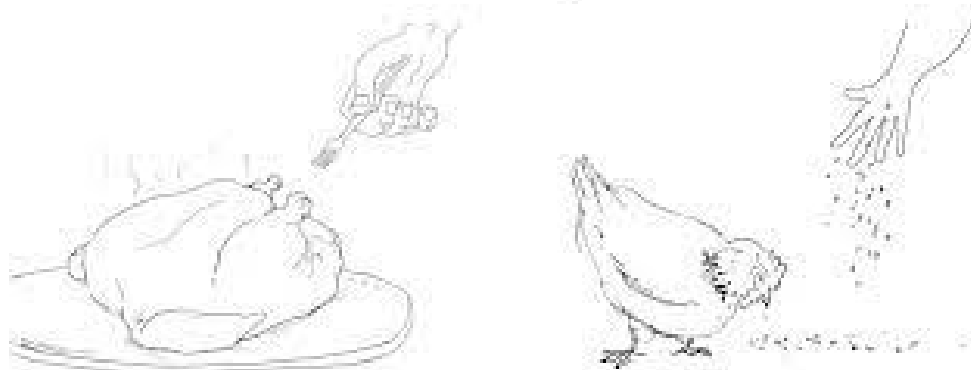
"The chicken is ready to eat."

Types of Ambiguities

❑**Lexical Analysis**:- single word multiple meaning

❑**Syntactic Analysis**:-Structure processing

❑**Semantic Analysis**:- Meaning representation

❑**Discourse Analysis**:- Processing of interrelated sentences

❑**Pragmatic Analysis**:-when sentence gives multiple meaning

Lexical Ambiguity

Should be Removed in parts of speech tagging

- She bagged two silver medals.
- She made a silver speech
- His worries had silvered his hair.

Lexical Semantic Ambiguity

- The tank was full of water
- I saw a military tank

Syntactic Ambiguity
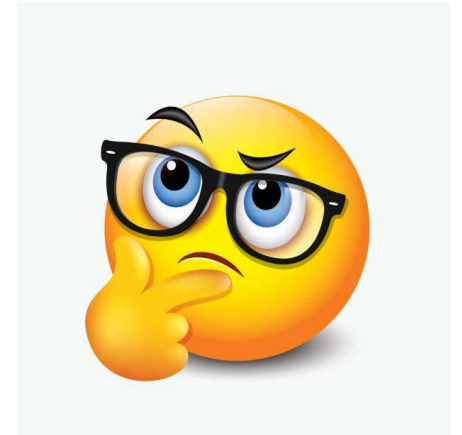
Scope Ambiguity

- **Old men and women were taken to safe locations**
  (old men and women) or ((old men) and women)?

- **Every man loves a woman.**

Attachment Ambiguity

- **The man saw the girl with the telescope.**

Semantic Ambiguity

Seema loves her mother and Sriya does too

(Sriya loves Seema's mother or her own mother)

Pragmatic Ambiguity

Hardest Task in NLP

I love you too.
This can be interpreted as
I love you (just like you love me)
I love you (just like someone else does)
I love you (and I love someone else)
I love you (as well as liking you)