
Bootcamp AI :

SEMAINE 4 : NLP & NLU

Réalisé par :

Ilyes Jennen
Walaeddine Taleb
Hattab Hammami

Talan[★]
The future is a playfield

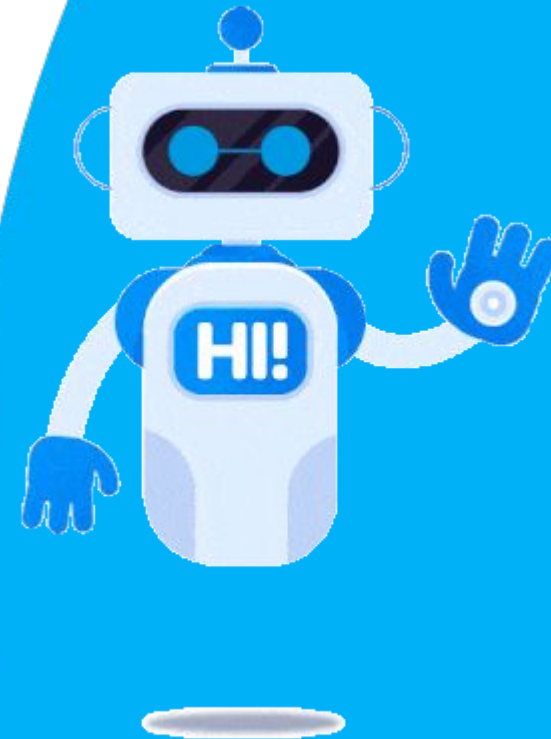
SOMMAIRE

Techniques et cas d'utilisation du NLP et du NLU

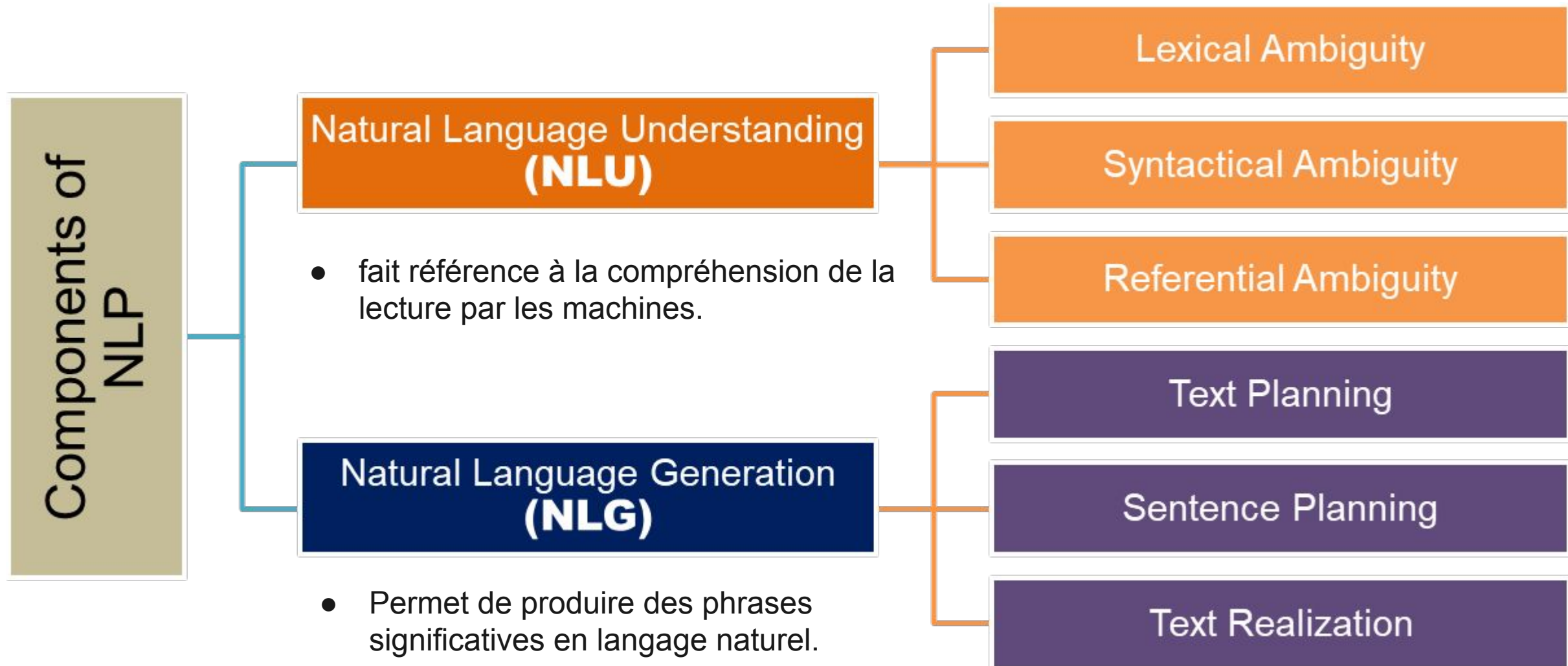
Transformers

Interfaces et Architectures conversationnelles

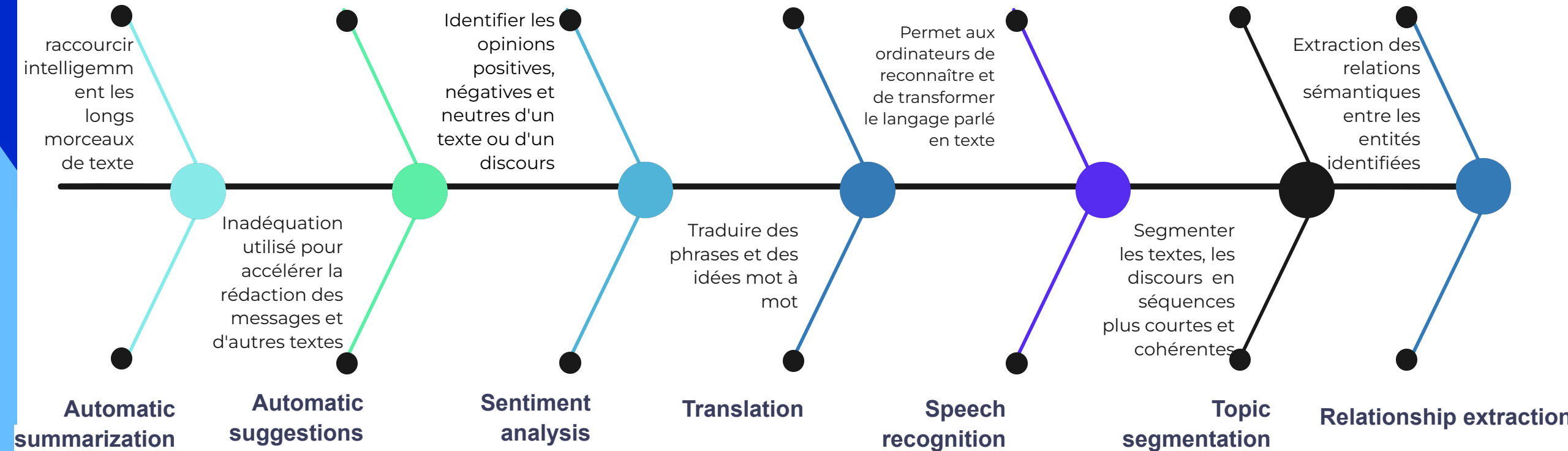
Topic modeling



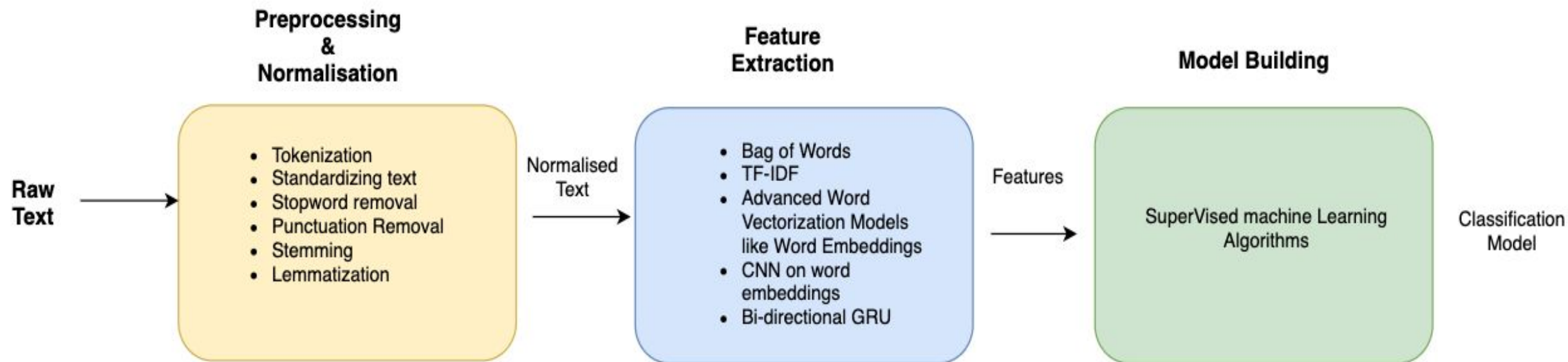
Les composantes de NLP



Cas d'utilisation de NLP

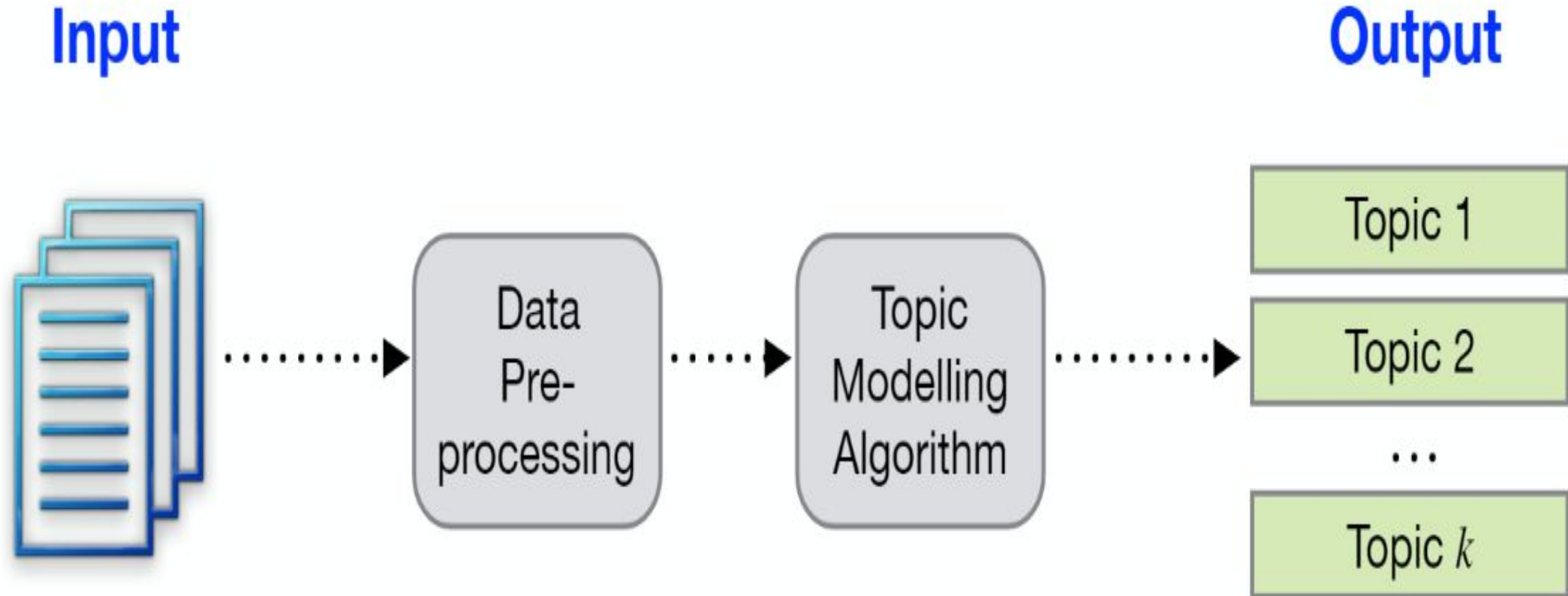


NLP Pipeline



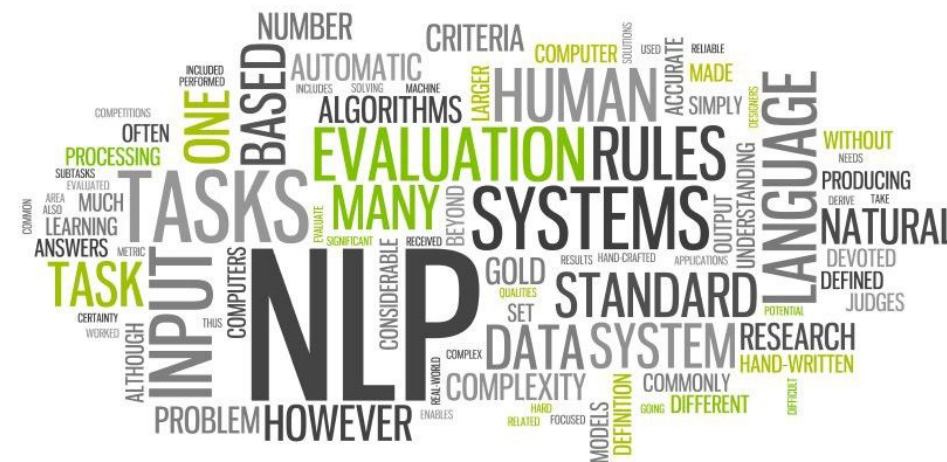
An NLP Model Creation Pipeline

Topic modeling

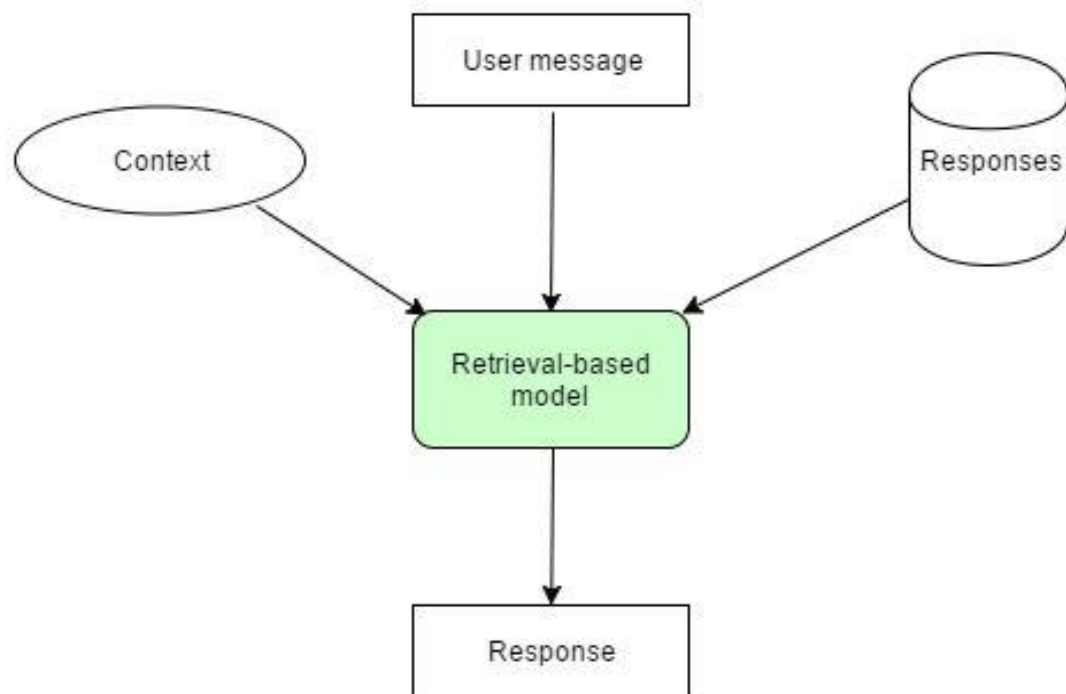




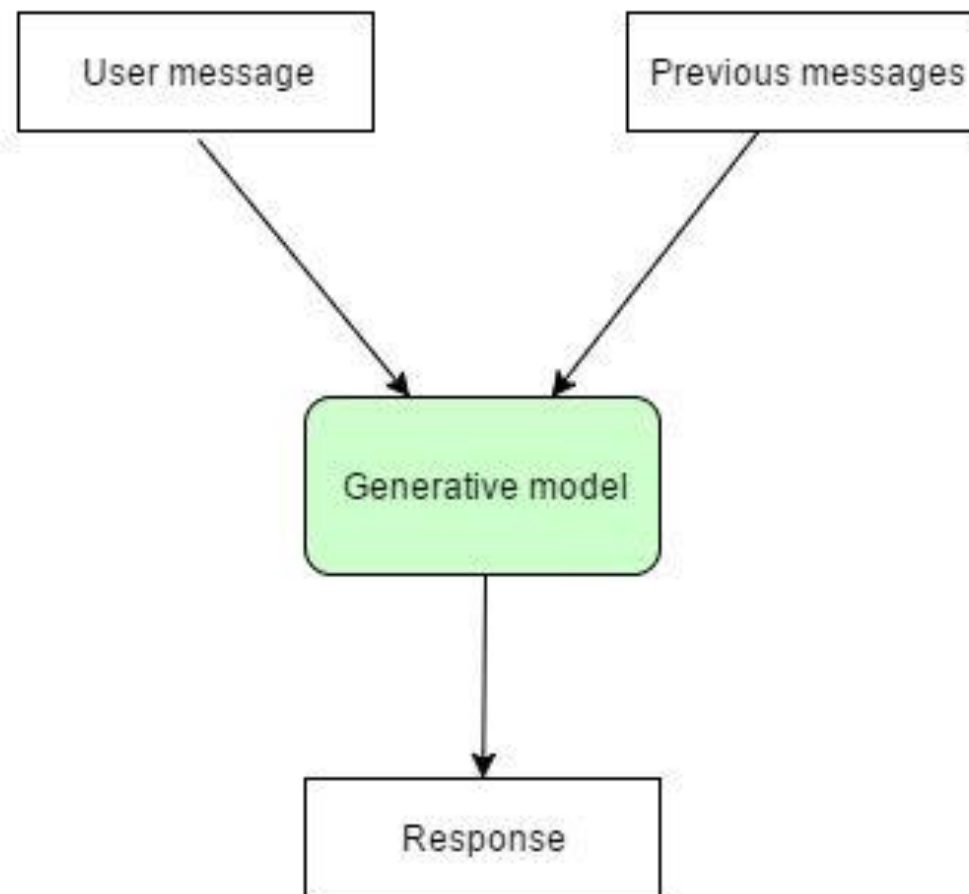
- **TF-IDF**
- **TextRank**
- **TopicRank**
- **YAKE**
- **BERT**



Les modèles basés sur la recherche



Les modèles génératifs



Transformers



1950

Fig. Evolution of NLP Models

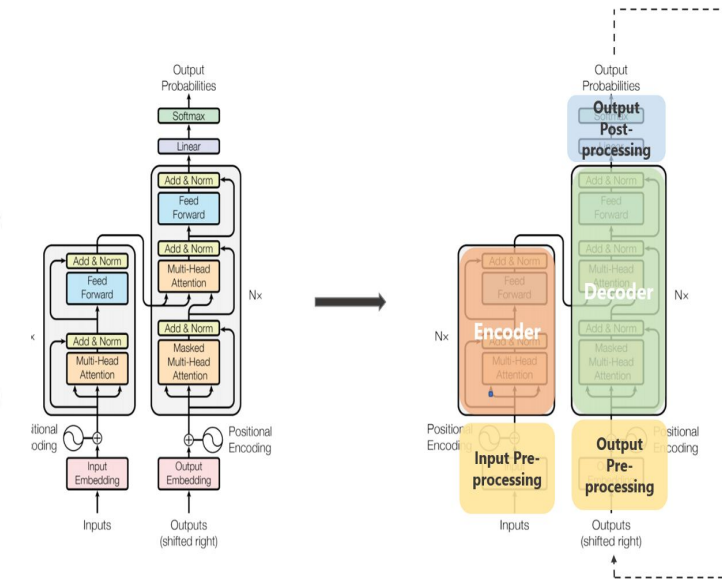
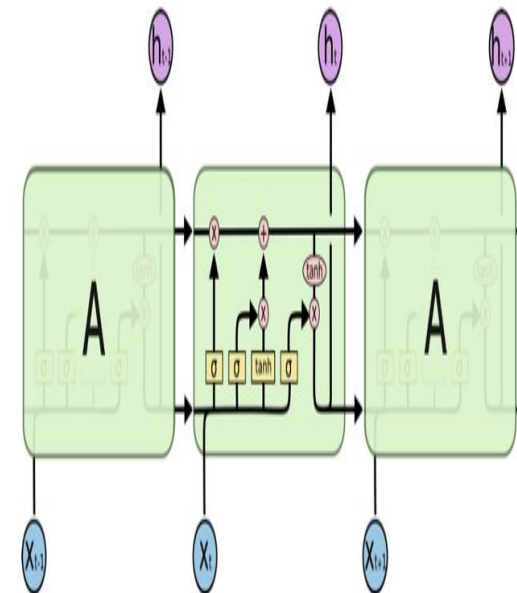
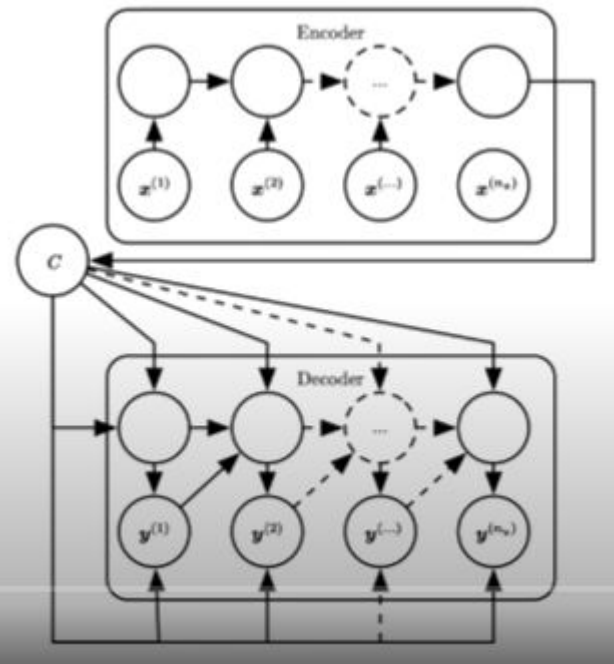
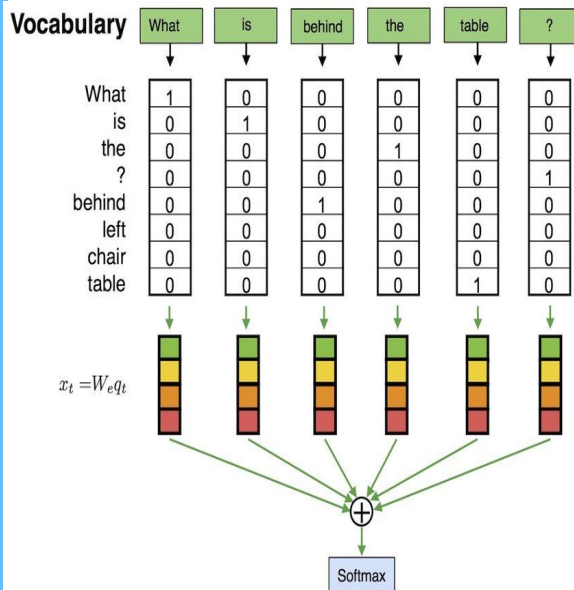
2020

Bag-of-Words

Seq-Seq

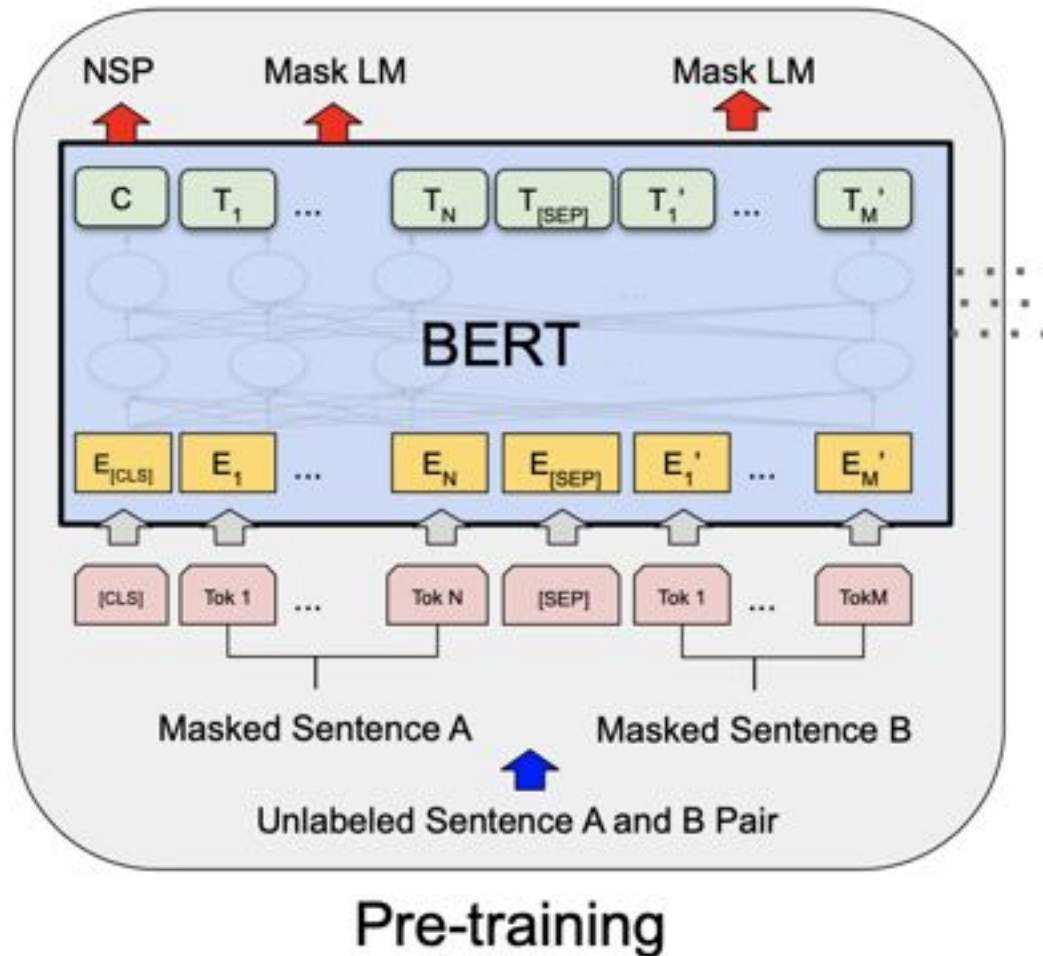
LSTM

Transformers



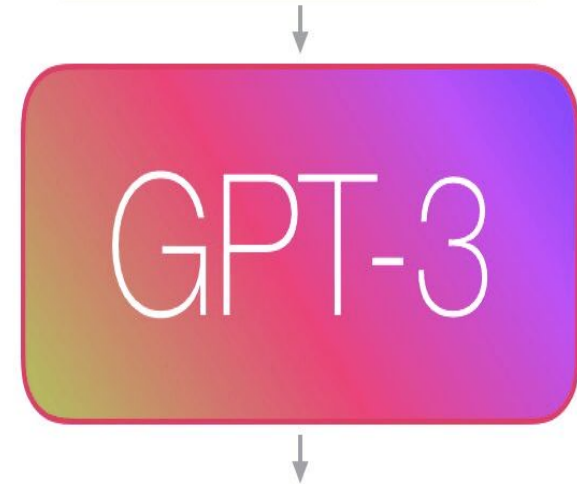
Transformers

BERT



GPT-3

Input Prompt: Recite the first law of robotics



Output:

**Merci de votre
attention**

Talan★
The future is a playfield