NATURAL LANGUAGE PROCESSING
TWO POSSIBLE WORKFLOWS
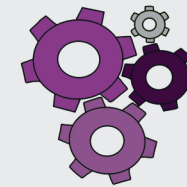
BAG OF WORDS

Load **data**

Tokenize text
Pre-process tokens (stemming, lemmatization, remove stops words, …)
Generate a **document feature matrix** (DFM)

- Use labeled data to **train your model** and to classify texts
- Use **dictionary-based approaches** for topic models or sentiment analysis
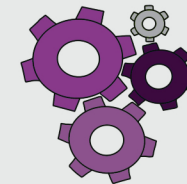- …

BERT

Load **data**
Load **pre-trained tokenizer**
Load **pre-trained model**

Tokenize text with pre-trained tokenizer (pre-processing happens under the hood)

Use labeled data to **fine-tune pre-trained models** for text classification, sentiment analysis, translation, question answering, …

👉 😊 Tutorial: **Tokenizer pipeline**
https://huggingface.co/docs/tokenizers/pipeline

👉 😊 Tutorial: **Fine-tune pre-trained model**
https://huggingface.co/docs/transformers/training

👉 😊 Different tasks at Huggingface
https://huggingface.co/tasks

Cosima_meyer