NATURAL LANGUAGE PROCESSING

TWO POSSIBLE WORKFLOW

BAG OF WORDS



Load data

BAG OF WORDS







	city	river
Doc A	4	0
DocB	0	5
•		
•		

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

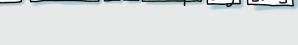
- ...





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