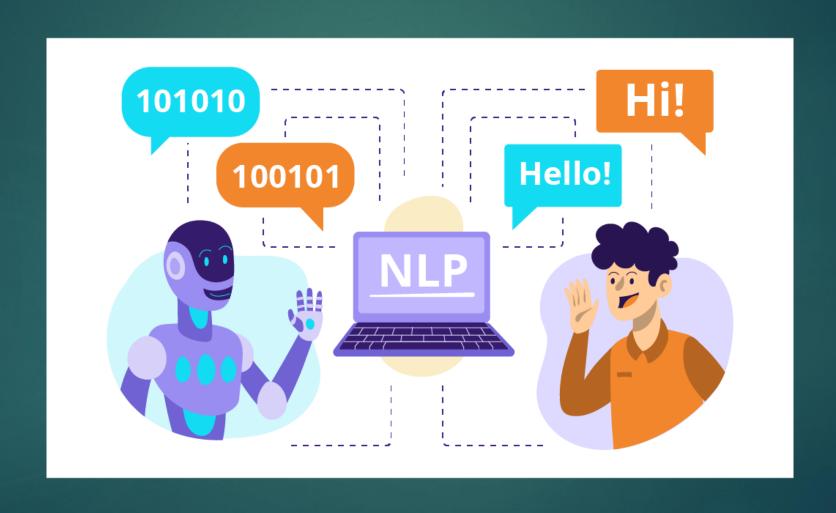
11-Deep learning for text

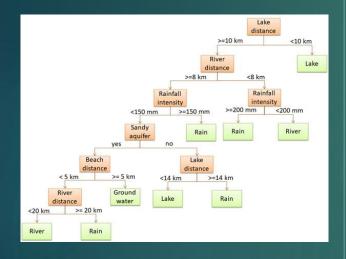
AMIN HEYDARI & FARIBA TAVAKOLI

Human langs vs Machine langs

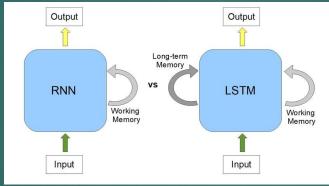


NLP

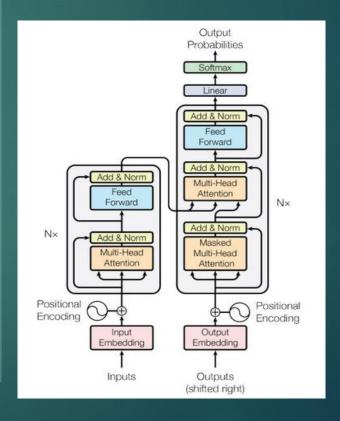
Decision tree 1990-2010



RNN & LSTM 2014-2017

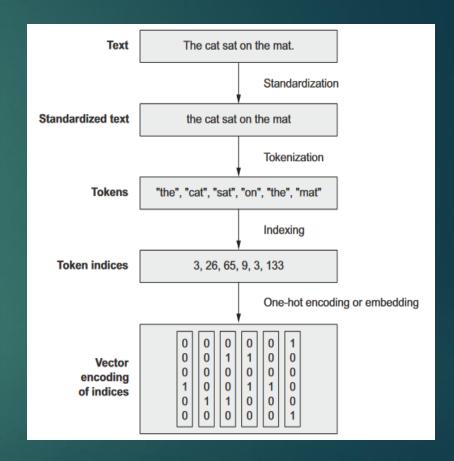


Transformers 2017 - Now

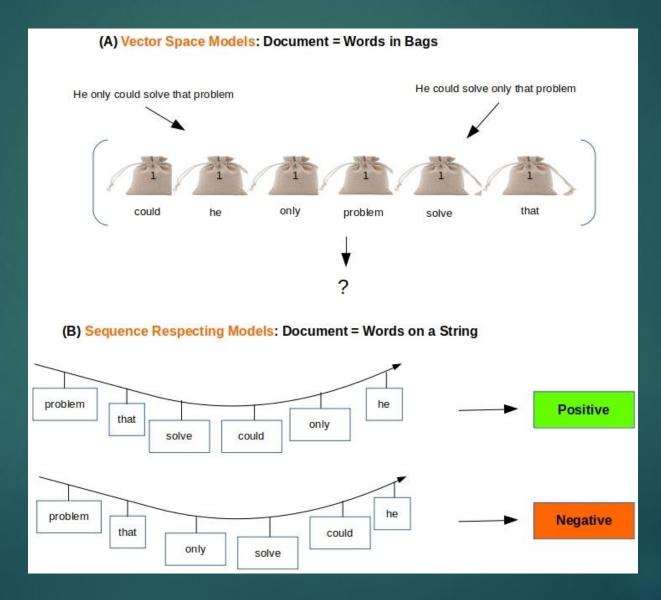


Preparing text data

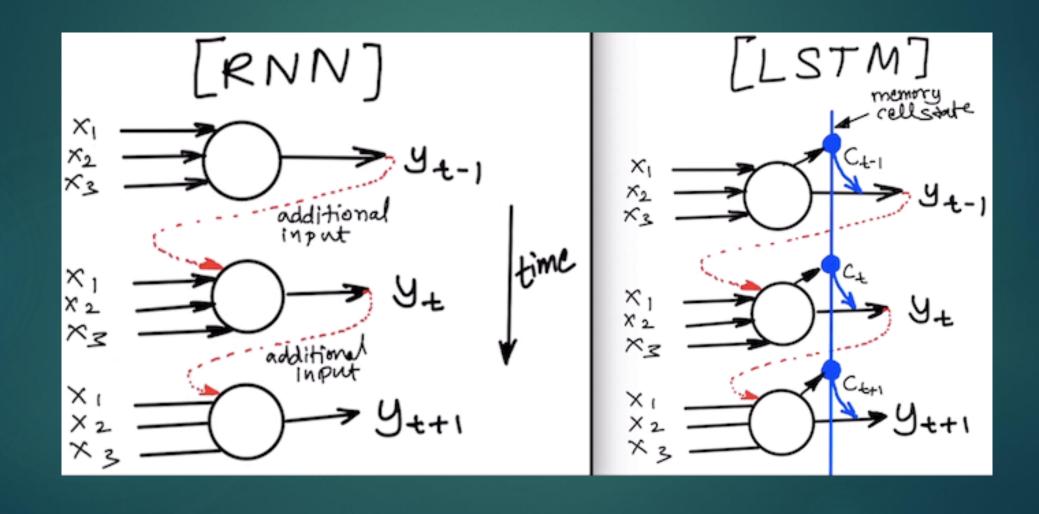
- i. Standardize
- ii. Tokenization
- iii. Convert tokens into a numerical vector



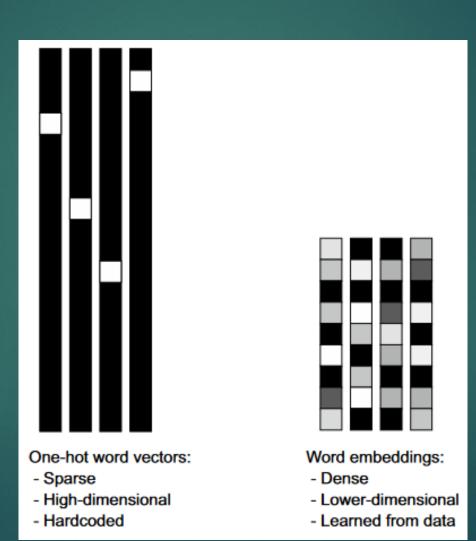
Sets vs Sequences



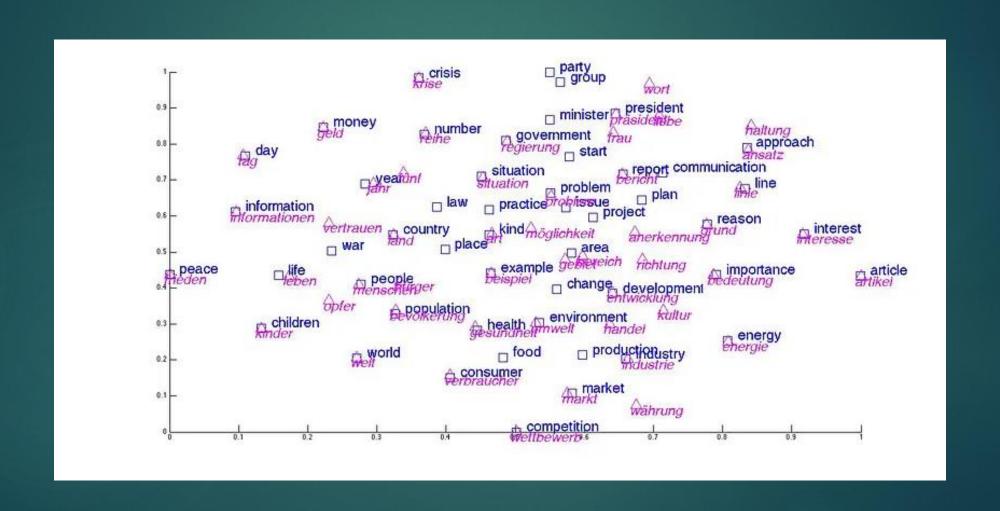
RNN vs LSTM



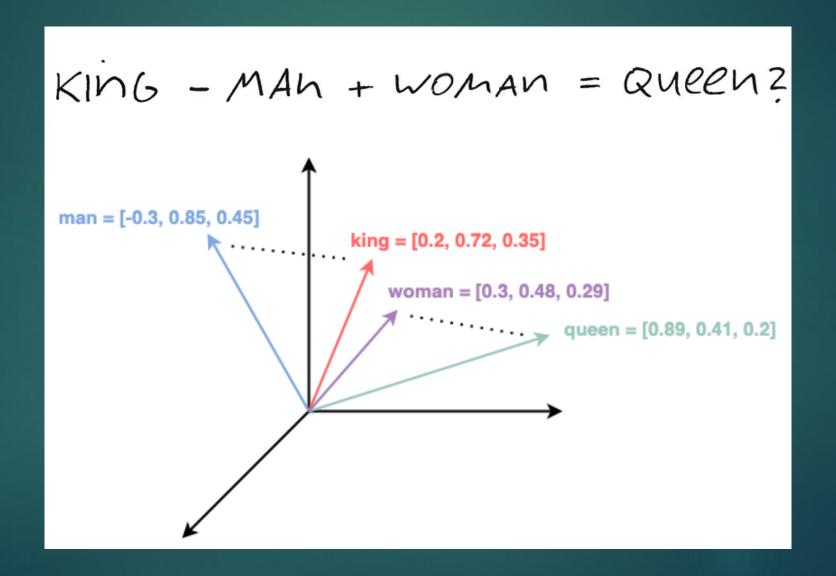
One-hot vs Embedding



Embedding



Embedding



The End