Natural Language Processing

- 1. Word representations: basic approaches (BoW, TF-iDF).
- 2. Word embeddings (word2vec: linearity, skip-gram, negative sampling, key ideas)
- 3. Ways to work with text data (RNN, CNN, classical approaches)
- 4. Attention mechanism, Self-attention mechanism
- 5. Contextualized embeddings main idea.
- 6. Transformer: encoder and decoder structure main details.
- 7. BERT structure, main ideas (masking, pre-training on many problems)
- 8. Machine translation metrics, quality functions