Nikita Shcherbak

shcherbak.ns@phystech.edu
github.com/nktshch
+7 939 701 8747

Professional Summary

NLP enthusiast with strong knowledge in Calculus, Probability Theory, Statistics, and Linear Algebra. Graduated from Moscow Institute of Physics and Technology. Thesis topic "Investigation of the Order of Grammemes Prediction in the Task of Automatic Morphological Tagging on Russian Language Data". Working in the Computational Linguistics lab at Institute for Information Transmission Problem. Currently pursuing Master's degree.

Education

Bachelor's Degree
Moscow Institute of Physics and Technology (MIPT)
Graduation: 2025   GPA: 4.89 / 5

Courses from Institute for Information Transmission Problems

- Introduction to Data Analysis
- Mathematical Statistics
- Unsupervised Learning
- Deep Learning
- Introduction to Optimisation in Machine Learning
- Computer Vision

Work Experience

Research led by a scientific supervisor
Institute for Information Transmission Problems (IITP)
2023 – Present

- Conducting a research project on morphological tagging using composite labels.
- Gained experience in academic and research project management.
- Presented results at MIPT Conference, became one of the prize-winners.

Skills

Technical:

- Python, PyTorch, Pandas, NumPy
- Calculus, Linear Algebra, Probability Theory, Differential Equations, Algorithms
- Theoretical principles of Machine Learning, Data Analysis, Natural Language Processing
- Advanced English: technical reading and confident speaking

Soft:

- Responsibility, critical thinking, persistence, quick learning

Projects

Diploma Thesis: Investigation of the Order of Grammemes Prediction in the Task of Automatic Morphological Tagging on Russian Language Data

- The model is an encoder-decoder written in PyTorch from scratch.
- Results show statistically significant influence of the order or grammemes prediction on the model performance.
- See thesis for details (in Russian).