Nikolay Pogrebnikov

📞 +7 (980) 375-51-06 — ✉ n.v.pogrebnikov@gmail.com — ⊙ github.com/xSICHx

A university student with a strong interest in statistics, data analysis, and machine learning, eager to apply knowledge and skills to real-world problems while continuously developing expertise in the field.

Skills

- **Languages:** Python, R, Java, C++, C#, SQL.

- **Analytical Skills** Experienced in data analytics, and statistical modeling.

- **ML and Data Technologies:** PyTorch, numpy, pandas, matplotlib, Docker, Apache Kafka, SQLite.

- **Natural Languages** Native Russian, Intermediate English.

Education

Saint Petersburg State University — **September 2021 – Present**
Bachelor's Degree Applied Mathematics and Computer Science
Relevant coursework:
Data Analysis, Machine Learning, Object-Oriented Programming, Statistical Analysis, Applied Statistics, Probability Theory.
Courses and certifications

– **Fundamentals of statistics**	**September 2022 – October 2022**
– **Yandex algorithm training 2.0 (No certificate)**	**August 2024 – September 2024**
– **Interactive SQL Simulator**	**November 2024 – December 2024**
– **Yandex ML training 1.0 (No certificate)**	**January 2025 – February 2025**

Practical Experience

Data streaming with Kafka Streams — **September 2022 – December 2022**
Research work and Telegram Bot Development

- Developed a Telegram bot in C# for event management at the Far Eastern Federal University (FEFU), automating tasks such as registration and providing event information
- Using Apache Kafka for real-time message processing, event handling, and facilitating communication between the Telegram bot and the SQLite database
- Result in the form of a coursework text, Kafka application and Telegram bot

Function Optimization Methods with Qt — **November 2024 - December 2024**
Research work and GUI Application Development

- Developed a C++ Qt-based application for optimizing mathematical functions, implementing methods such as Random Search and Newton's Method
- Designed an interactive graphical interface to visualize optimization processes, including contour plots and user-defined search areas
- Source code and documentation available on GitHub

Nekrasovka newspaper to radio — **April 2025 – April 2025**
Yandex Student Camp "Generative AI and robots"

- Teamwork in converting old newspaper scans into radio broadcasts using CV and LLM.
- My contribution is to convert newspaper scans into bounding boxes with labels using OCR and Yolo model.
- The result is in the form of a presentation and a github repository

SSA for time series, variants of Circulant SSA, comparison of methods — **September 2023 – Present**
Research work

- Worked on singular spectrum analysis (SSA) method for dividing time series into components such as trend, seasonality, noise
- Implementation of Circulant SSA modification in R language and comparing it to the basic SSA
- Intermediate result in the form of a coursework text