

# Daniil Tretyakov

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## Education

### Saint Petersburg State University

Bachelor's Degree in Applied Mathematics and Information Science

St. Petersburg, Russia

Sep. 2020 – Present (4th year)

## Technical skills

**Mathematics:** econometrics, probability theory, mathematical statistics, linear algebra, mathematical analysis;

**Languages:** Python, C++, SQL (Postgres), R, Bash;

**Frameworks:** PyTorch, Scikit-Learn, MLFlow, Apache Hadoop, Apache Spark, Apache Airflow, Aiogram;

**Libraries:** pandas, NumPy, SciPy, seaborn, NLTK, Transformers, SQLAlchemy, statsmodels;

**Developer Tools:** Linux (Arch, btw), Git, Docker, BI systems (DataLens);

## Commercial Projects

### Telegram Bot powered by AI models | Python, Aiogram, PostgreSQL, Docker, Nginx, DataLens

- Using *Aiogram* and *OpenAI API*, created a web application that allows clients to interact with advanced generative AI models;
- Set up *Yandex DataLens* for aggregation, visualization, and analysis of user statistics to execute statistical experiments and enhance service quality;
- Integrated *PostgreSQL* database, which significantly improved the reliability and scalability of the project;
- Designed and implemented a microservices architecture using *Docker Compose*, which reduced the project deployment time on a new server to 1 minute;
- Configured *Nginx* as a reverse proxy to receive events via webhook, which doubled events processing speed;

## Non-commercial Projects

### Genetic algorithm for reduction and approximating the Pareto Set | Python, SciPy, Matplotlib

- Programmed a process of reduction of the Pareto set that uses a finite collection of information quanta;
- Considered and compared existing methods for Pareto set approximation;
- Adapted a genetic algorithm for usage in the iterative reduction process;

## Participation in Competitions

Participant in the [Backdrop Build competition](#) in the «AI» category with the [chxxxxbot](#) project.

July 2024

Participant in the [E-CUP 2024 hackathon](#) from Ozon Tech as a Data Engineer.

August 2024

## Preferred Working Conditions

Work schedules:

- Fixed working hours: 20-32 hours per week
- Flexible working hours: up to 40 hours per week

Locations:

- Saint Petersburg, Russia
- Fully remote work

## Additional skills and knowledge

English level: *Upper Intermediate (B2)* | [Saint Petersburg State University Certificate](#)

July 2022

Mathematical Statistics | [Computer Science Center Certificate](#)

October 2023

Mathematical Analysis | [Computer Science Center Certificate](#)

October 2023

Linear Algebra | [Computer Science Center Certificate](#)

March 2024

Probability Theory | [Computer Science Center Certificate](#)

August 2024

Introduction to Competitive Data Science | [Stepik Certificate](#)

August 2024