Daniil Tretyakov

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Education

Saint Petersburg State University Saint Petersburg, Russia

Bachelor's Degree in Applied Mathematics, Fundamental Informatics and Programming *Aug. 2020 – Present*

Technical skills

Mathematics: econometrics, probability theory, mathematical statistics, linear algebra, mathematical analysis, discrete mathematics

Languages: Python, SQL (Postgres), C/C++, R, Bash, LaTeX

Frameworks: PyTorch, Scikit-Learn, aiogram

Libraries: pandas, NumPy, SciPy, Matplotlib, statsmodels

Developer Tools: Linux (Arch, btw), Git, Docker, Nginx, SQLAlchemy, BI systems (DataLens), algorithms (LeetCode)

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;
- Integrated *PostgreSQL* database, which significantly improved the reliability and scalability of the project;
- Set up *Yandex DataLens* for aggregation, visualization, and analysis of user statistics to enhance service quality;
- Configured *Nginx* as a reverse proxy to receive events via webhook, which doubled events processing speed;
- Designed and implemented a multi-container system using *Docker Compose*, which reduced the project deployment time on a new server to 1 minute;

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

Mathematics courses from the Computer Science Center on the Stepik platform

Lecture course on the basics of Bayesian inference (Math-CS SPbU, S.I.Nikolenko)

Lecture course on machine learning (MIPT, K.V.Vorontsov)

Course "Deep Learning" from the School of Deep Learning at MIPT on the Stepik platform

Course «Introduction to Competitive Data Science» on the Stepik platform

Machine learning handbook course from the Yandex School of Data Analysis