Daniil Tretyakov

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Education

Saint Petersburg State University   St. Petersburg, Russia
Bachelor's Degree in Applied Mathematics and Information Science   *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*