

Daniil Petrovich

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Professional Skills:

- **Programming Languages:** Python (primary), C++ (advanced)
- **Machine Learning:** Deep knowledge of PyTorch, TensorFlow, Keras, Scikit-learn. Hands-on experience in academic and professional projects.
- **Development:** Experience in industrial backend development using Django, Flask, aiogram.
- **Tools:** API development, data processing, Telegram bot development, statistical analysis.

Education:

2021 — 2025	Faculty of Computer Science, HSE University (Bachelor's Degree, specialization: Machine Learning)
2017 — 2021	School No. 54, specialized class at MSU Mechanics and Mathematics Faculty
2019 — 2021	Moscow School of Programmers
2017 — 2019	Yandex Lyceum

Awards and Achievements:

- Diploma in the Phystech Mathematics Olympiad

Hackathons:

- 2024 - Tinkoff Sports Hackathon. Our team ranked 8th out of 30.
- 2024 - SFO Hackathon. The task was to create a website for generating presentations using AI (GigaChat API).

Projects:

- **Compgraph (2024):** GitHub — Implementation of joiner, mapper, and reducer classes for computation graphs. SHAD coursework.

- **Virtual Machine (2024):** GitHub — Full-featured virtual machine implementation in Python 3.12.5. SHAD coursework.
- **Translation Model (2024):** GitHub — A translation model from German to English using PyTorch.
- **Automatic Event Recognition** GitHub - A team project extending Gmail and Google Calendar to automatically create events. Solved a Named Entity Recognition (NER) task and applied patterns to identify events for calendar integration. Worked on the machine learning component.
- **Joke Generator (2023):** GitHub — A joke generation model based on input phrases. University project using PyTorch.
- **CV Website (2022):** GitHub — A web application for generating resumes based on templates, developed with Django and a database backend.
- **Telegram Bots (2022—2024):** Bots for chat administration, movie search (Kinopoisk API), text-based quests, and news delivery.
- **HSE Image Processor (2022):** GitHub — An application for applying filters to images. Implemented all filter logic manually in C++.

Work Experience:

2024 — 2025	Yandex (ML Engineer): Worked on the Alice smart speaker. Redesigned the volume threshold logic, conceptualized and implemented an extended volume range (inspired by TV controls). Improved a binary classification model for user detection: conducted extensive experiments with the model and training data. Deployed and analyzed A/B tests. Used C++ and Python extensively.
2023 — 2024	Yandex (Backend Developer): Internship. Developed features for working with language models, wrote tests, and organized log processing.

GitHub: <https://github.com/DanPetrovich>