Daniil Petrovich

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About Me

I am 21 years old and work as an ML Engineer. I study at the National Research University Higher School of Economics (HSE). I have experience working at Yandex as both a Python backend developer and an ML Engineer. I am applying for a relevant position.

Professional Skills:

- **Programming Languages:** Python (primary), C++ (advanced level), SQL
- **Machine Learning:** Extensive knowledge of PyTorch, TensorFlow, Keras, Scikit-learn libraries, Spark. Have worked on multiple academic projects as well as commercial experience.
- **Development:** Experience in industrial backend development using Django, Flask, aiogram.
- **Tools:** API development, data processing, Telegram bot development, statistical analysis.

Education:

2024	**Yandex School of Data Analysis (SHAD)** - Completed the Python course with the highest score.
2021 — 2025	**Faculty of Computer Science, Applied Mathematics and Informatics, Higher School of Economics** (Bachelor's degree, specialization: Machine Learning)
2017 — 2021	School No. 54, specialized class at the Faculty of Mechanics and Mathematics, Moscow State University (MSU)
2019 — 2021	Moscow School of Programmers
2017 — 2019	Yandex Lyceum

Work Experience:

2024 — 2025	**Yandex (ML Engineer):** Worked on Alice smart speakers. Redesigned volume threshold selection logic, conceived and implemented an extended volume range (similar to TVs). Improved a binary classification model for user detection: conducted multiple experiments with models and training data, deployed updates, and conducted A/B test analysis. **Tech Stack** - C++ and Python, Torch, Numpy, Pandas, Scikit-learn, Git
2023 — 2024	**Yandex (Backend Developer):** Internship. Developed functions for working with language models, wrote tests, and managed log dispatch. **Tech Stack** - Python, Jinja, Git

Projects:

- **CompGraph (2024):** GitHub — Implemented classes for joiners, mappers, and reducers in computational graphs. YSDA homework project.
- **Virtual Machine (2024):** GitHub — Implemented a virtual machine in Python 3.12.5 with full functionality. YSDA homework project.
- **Translator Model (2024):** GitHub — Machine translation model from German to English using PyTorch.
- **Automatic Event Recognition** GitHub - A team course project. Gmail and Google Calendar extension for automatic event creation from emails. Worked on machine learning tasks.
- **Joke Generator (2023):** GitHub — Model generating jokes based on input phrases. University project, implemented with PyTorch.
- **CV Website (2022):** GitHub — Web application for resume generation based on templates, developed using Django with a database.
- **Telegram Bots (2022—2024):** Developed bots for chat administration, movie search (using Kinopoisk API), text-based quests, and news aggregation.
- **HSE Image Processor (2022):** GitHub — Application for applying filters to photos. Implemented filter logic manually. Developed in C++.