Andrei Panferov

ML Engineer

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Education

Moscow Institute of Science and Technology (MIPT)   *Moscow, Russia*
BACHELOR OF SCIENCE IN PHYSICS AND MATH, GPA: 9.1/10.0   *2019 - 2023*

Yandex School of Data Analysis (YSDA)   *Moscow, Russia*
MACHINE LEARNING DEVELOPER   *2021 - 2023*
- Two semester advanced C++ course (including concurrency, metaprogramming and network programming)
- One semester Efficient DL course (distributed training, deployment, distillation)
- Two semester general ML course

Skills

Languages	C++, Python, CUDA
ML	PyTorch (including distributed and script), Megatron-LM, huggingface
Deploy	Docker, Flask, Prometheus, Docker compose
NLP	LLMs, well-acquainted with SOTA techniques
Network	Protoc, FIX, linux sockets

Experience

Yandex   *Moscow, Russia*
ML ENGINEER INTERN (NLP)   *March 2022 - July 2022*
- Writing fast LM backends (C++ and CUDA)
- Writing APIs and deploying models

Terra Quantum AG   *Moscow, Russia*
SOFTWARE ENGINEER   *July 2020 - July 2022*
- Developed a framework for quantum circuit optimization (python)
- Analyzed experiment data and helped building models of quantum decoherence

Projects

⚙ **NLP bot**
- Telegram **bot** with **NLP** functionality
- Automatic **data collection** and preparation
- Easily deployed with **Docker compose**
- Full deployment with **Telegram API**, **backend** and **metrics**

⚙ **Raytracer**
- An almost **pure C++ raytracing** program
- Features CATCH2 **unit tests** and **GitHub-CI**

⚙ **Neuromatch Academy Final Project**
ML DESIGN   *Summer 2021*
- Calcium imaging **neuron activity** analysis
- **Convolutional network** for **time series** analysis

Awards

International Physics Olympiad   *Israel*
GOLD MEDAL   *Summer 2019*