

Andrei Panferov

ML RESEARCHER

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Experience

KAUST, Optimization and Machine Learning Lab

RESEARCH INTERN

[Saudi Arabia](#)

July 2023 - September 2023

- Conducted research under the supervision of Prof. Peter Richtarik on **Distributed Optimization**, focusing on Communication Compression

Eqvilent (HFT fund)

SOFTWARE ENGINEER

[Remote](#)

July 2022 - May 2023

Yandex

ML ENGINEER INTERN (NLP)

[Moscow, Russia](#)

March 2022 - July 2022

- Refactored and optimized an **LLM inference framework** enabling abstract *tabular data* insertion for efficient **Map-Reduce** inference
- Increased test coverage from **0 to 85%** through rigorous unit testing
- Took part in developing a *universal LLM benchmarking solution* adapting 2 datasets for it

Terra Quantum AG

SOFTWARE ENGINEER

[Moscow, Russia](#)

July 2020 - July 2022

- Designed a framework for quantum circuit optimization using **Python**
- Analyzed experiment data and helped build models of quantum decoherence
- Benchmarked quantum algorithms for protein folding simulation

Awards

International Physics Olympiad

GOLD MEDAL

[Israel](#)

Summer 2019

Education

Moscow Institute of Physics and Technology (MIPT)

BACHELOR OF SCIENCE IN PHYSICS AND MATH

[Moscow, Russia](#)

2020 - 2024

- Majoring in quantum physics and quantum computations
- 5.0/5.0 GPA

Yandex School of Data Analysis (YSDA)

MACHINE LEARNING DEVELOPER

[Moscow, Russia](#)

2021 - 2023

- General and specialized ML courses
- Collaborative research and open-source contributions

Projects

🔗 tensor_parallel

- An open-source **python library** for tensor parallel **PyTorch** models training and inference. Tight integration with **Hugging Face transformers**.
- More than 300 ⭐
- Created under the supervision of **Yandex Research** researchers

🔗 NLP bot

- A Telegram **bot** with a fine-tuned **Language Model**, automatic **data collection** and preparation
- Easily deployable with **Docker compose**
- Full deployment with **Telegram API**, **backend** and **metrics**

🧠 Neuromatch Academy Final Project

- Designed neural networks for calcium imaging **neuron activity** analysis
- Convolutional network** for **time series** analysis