

Andrei Panferov

ML RESEARCHER

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Experience

KAUST, Optimization and Machine Learning Lab

Saudi Arabia

RESEARCH INTERN

July 2023 - September 2023

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

Eqvilent (HFT fund)

Remote

SOFTWARE ENGINEER

July 2022 - May 2023

Yandex

Moscow, Russia

ML ENGINEER INTERN (NLP)

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

Moscow, Russia

SOFTWARE ENGINEER

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

Israel

GOLD MEDAL

Summer 2019

Education

Moscow Institute of Physics and Technology (MIPT)

Moscow, Russia

BACHELOR OF SCIENCE IN PHYSICS AND MATH

2020 - 2024

- Achieved a perfect 5.0/5.0 GPA
- Second minor in Teaching Methods and Pedagogy

Yandex School of Data Analysis (YSDA)

Moscow, Russia

ADVANCED PROGRAM IN MACHINE LEARNING (MASTER'S LEVEL COURSES)

2021 - 2023

- Specialization in DL and NLP
- Open-source contributions (see *Projects*)
- Teaching assistant for the Advanced Machine Learning course

Projects

🔗 tensor_parallel

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

🤖 HuYaLM-100B

- An implementation of **YaLM-100B** LLM specifically for **Hugging Face transformers**
- Based on the officialy published **Megatron-LM** implementation

🔗 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**