Andrei Panferov

MI ENGINEER

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Education _

Moscow Institute of Physics and Technology (MIPT)

BACHELOR OF SCIENCE IN PHYSICS AND MATH, GPA: 9.1/10.0

• Majoring in quantum physics and quantum computations

Yandex School of Data Analysis (YSDA)

MACHINE LEARNING DEVELOPER

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

Moscow, Russia

July 2020 - July 2022

Moscow, Russia

2021 - 2023

2020 - 2024

Experience _____

Yandex Moscow, Russia

ML Engineer Intern (NLP)

March 2022 - July 2022

 Refactored an LLM inference framework and added support for abstract tabular data insertion for efficient Map-Reduce inference

- Covered it with unit tests (0 -> 85% coverage)
- Took part in developing a universal LLM benchmarking solution and adapted 2 datasets for it

Terra Quantum AG Moscow, Russia

SOFTWARE ENGINEER

SOFT WARE ENGINEER

- Developed a framework for quantum circuit optimization (python)

 Applicated a graph state and helped building models of quantum decelors.
- Analyzed experiment data and helped building models of quantum decoherence
- Benchmarked quantum algorithms for protein folding simulation

Projects _____

() tensor_parallel

- A python library for tensor parallel Hugging Face models training and inference. Extensively using transformers and torch distributed.
- Created under the supervision of **Yandex Research** researchers

O NLP bot

- Telegram bot with a fine-tuned Language Model
- 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

The cooler Raytracer

• The same raytracer but in **Rust**

Neuromatch Academy Final Project

ML DESIGN

• Calcium imaging **neuron activity** analysis

• Convolutional network for time series analysis

Awards _____

International Physics Olympiad

Israel

Summer 2021

GOLD MEDAL Summer 2019