Nikita Mineev

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Work Experience

Yandex — Moscow, Russia
Machine Learning Engineer @ AdTech — *May 2024 – Nov 2024*

Developed internal highly parallelized asynchronous framework
for distributed deep learning at highload (300k rps) Yandex advertising platform.

- Optimized continuous features discretization with efficient cache-aware implementation of binary search on B-tree.
- Implemented key-based sharding of key-value embeddings storage with concurrent forward pass, backward pass and checkpointing support.
- Developed CUDA-kernels for efficient parallel calculations with embeddings.

Technologies: C++, Python, CUDA, Concurrent programming, ML & DL, RecSys

VK — Moscow, Russia
Machine Learning Engineer @ Marusia — *Apr 2023 – Aug 2023*

Worked on improving automatic speech recognition component
of voice assistant "Marusia".

- Implemented bottleneck, LoRA adapters for parameter efficient CTC-Transformer fine-tuning.
- Trained LSTM-based, GPT2 language models to improve ASR quality of CTC-Transformer.
- Implemented Conformer: Convolution-augmented Transformer for Speech Recognition.

Technologies: Python, Pytorch, Hadoop, ML & DL, NLP

Education

Yandex School of Data Analysis — Moscow, Russia
Big Data Infrastructure — *Sep 2023 – Jun 2025*
Two-year Russia's hardest computer science program from Yandex

- **Relevant coursework:** Rust, Computer Architecture and Operating Systems, Concurrency, Distributed Systems, External Memory Algorithms

MADE: Data Science Academy — Moscow, Russia
Annual intensive data analysis program from VK — *Sep 2022 – Jul 2023*
Graduation Project: "Toxicity Detector"

- **Relevant coursework:** Bayesian Methods, Deep Learning, NLP, CV, RecSys, RL, Graph Neural Networks, A/B-testing

Moscow Institute of Physics and Technology — Moscow, Russia
M.Sc. in Computer Science, Department of Innovation and High Technologies — *Sep 2021 – Jun 2023*
Master's Thesis: "Recommendation systems based on graph neural networks"

- **Relevant coursework:** C++, Algorithms and Data Structures, Machine Learning, Databases, Big Data Processing

Novosibirsk State University — Novosibirsk, Russia
B.Sc. in Applied Mathematics and Informatics, Department of Mechanics and Mathematics — *Sep 2016 – Jun 2020*
Bachelor's Thesis: "Research of time series forecasting models"

- **Relevant coursework:** Calculus, Linear Algebra, Probability Theory, Statistics, Optimization Methods etc

Technical Skills

Programming languages: C, C++17/20, CUDA, Rust, Python, Bash

DevOps: Linux, Docker, Git, CI/CD, CMake, GTest, Pytest

Machine learning: NumPy, SKLearn, CatBoost, LightGBM, PyTorch, TorchRL, Transformers, DGL

Data engineering: Pandas, Hadoop, PySpark, Airflow