

# Egor Konovalov

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## EXPERIENCE

### ML Engineer

March 2025 - September 2025

*GigaChat Pretrain Data*

- Built distributed synthetic data generation framework — replaced manual multi-node workflow with automated orchestration, experiment tracking, and step caching
- Designed and implemented synthetic math and code generation tasks for LLM pretraining
- Developed model evaluation pipelines with quality metrics and consistency checks across training runs

### ML Architect, DevRel

June 2024 - March 2025

*Yandex Cloud*

- Delivered technical talks and demos on ML infrastructure
- Built and deployed LLM and computer vision solutions for social impact projects
- Collaborated with cross-functional teams to ensure successful project delivery and alignment with social goals.
- Created technical documentation and tutorials for cloud ML services

### Researcher

February 2024 - May 2024

*Sber Blockchain Laboratory*

- Developed fraud detection models for blockchain applications using deep learning

### Internship, RnD

January 2023 - May 2023

*USPEX Laboratory*

- Conducted research on crystal structure prediction, improving result accuracy through generative adversarial networks and utilizing the "Blokhin" cluster for efficient distributed computing.

## PROJECTS

### Kernelscope

[link](#)

- CUDA kernel debugger mapping source lines to PTX instructions + GPU events — analyzes warp state, register pressure, memory coalescing, branch divergence, SM occupancy and more

### Minimodal

[link](#)

- Developed a lightweight, serverless computing framework in Python, enabling seamless deployment of functions as microservices with automatic scaling, secret management, and volume support.
- Implemented a modular architecture with SDK, server, worker, integrated Docker for containerized execution.

## TEACHING & MENTORSHIP

- Lead tutor for the "Modern NLP and LLMs" course at VK Education and ML courses at MISIS University
- Guest lecturer at top-tier national schools, mentoring students in advanced ML methodologies.
- Scholarship holder of the Yandex Teaching Assistants Program.

## ACHIEVEMENTS

- First place at Purple Hack, CLTV prediction task from Alfa bank, [sources](#)
- First place at National Technology Olympiad in Computer Vision, students track, text&image search task, [sources](#)
- Second place at VKxHSE DataHack, Age&Gender predicion by ad clicks
- Second place at Smolathon, educational digital projects track, [sources](#)
- Second place at FutureData, data visualization hackathon

## EDUCATION

### NUST MISIS

2022-2027

*B.Sc. in Applied Mathematics*

### Innopolis University x Yandex

*Mathematics of Machine Learning*