# Egor Konovalov

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## EXPERIENCE

**ML Engineer**                                    March 2025 - August 2025
*GigaChat Pretrain Data*
- Developed and optimized synthetic data generation pipelines for large-scale pretraining corpora, focusing on mathematical problem-solving and programming tasks.
- Implemented preprocessing and filtering workflows to ensure high-quality training datasets.
- Introduced quality evaluation metrics and consistency checks to maintain reliability of pretraining data.

**ML Architect for Social Projects**              September 2024 - March 2025
*Yandex Cloud*
- Managing projects from ideation and requirements formulation to implementation and deployment, implementing MLOps practices to facilitate seamless integration of ML solutions into production environments.
- Developing solutions with LLM's and addressing computer vision challenges to enhance social project outcomes.
- Collaborating with cross-functional teams to ensure successful project delivery and alignment with social goals.

**Researcher**                                     February 2024 - May 2024
*Sber Blockchain Laboratory*
- Developed and implemented fraud detection mechanisms in blockchain applications
- Conducted research on the application of deep learning techniques in blockchain technology

**DL Researcher in Chemistry**                     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

**Minimodal**
- 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.

**Advanced Search Engine for Nekrasovka eLibrary**
- Designed and deployed search engine to manage bibliographic data, with semantic and image search capabilities.
- Implemented a RAG-powered AI assistant to enhance data retrieval and user experience.

## TEACHING & MENTORSHIP

- Lead tutor for the "Modern NLP and LLMs" course at VK Education, Instructor for two machine learning courses at MISIS University
- Guest lecturer at Deep Learning School, Sirius, CPM, 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

## EDUCATION

**NUST MISIS**                                     2022-2026
*B.Sc. in Applied Mathematics*

**Innopolis University x Yandex**
*Mathematics of Machine Learning*

**MSU**
*Course in Machine Learning in Physics*