

# Egor Konovalov

89623282639 | [hehenukee@gmail.com](mailto:hehenukee@gmail.com) | [github.com/wtfnukee](https://github.com/wtfnukee) | [distributedhatemachine.github.io](https://distributedhatemachine.github.io)

## EXPERIENCE

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### 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

June 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

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### 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.

### 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

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- Lead tutor for the "Modern NLP and LLMs" course at VK Education and ML 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

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- 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

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### NUST MISIS

2022-2026

*B.Sc. in Applied Mathematics*

### Innopolis University x Yandex

*Mathematics of Machine Learning*

### MSU

*Course in Machine Learning in Physics*