

Egor Gikalo

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EDUCATION

New York University

New York, NY

Candidate for Master's in Data Science

Sep 2025 – May 2027

- **Coursework:** Computer Vision, Optimization and Computational Linear Algebra, Probabilistic Time Series Analysis, Introduction to Data Science

Lomonosov Moscow State University

Moscow, Russia

Bachelor of Applied Mathematics and Computer Science

Sep 2021 – Jun 2025

- **Awards:** State Academic Scholarship, Gold Medal in Annual Thesis Competition 2025
- **Coursework:** Machine Learning, Deep Learning, Probability Theory and Mathematical Statistics, Optimization Methods, Numerical Methods
- **Relevant Topics:** Supervised and Unsupervised Learning, Neural Networks (CNNs, RNNs, LSTMs), Dimensionality Reduction (PCA), Model Evaluation and Selection, Hypothesis Testing, Bayesian Inference, Gradient Descent, Backpropagation, Naïve Bayes

WORK EXPERIENCE

Russian Academy of Sciences

Moscow, Russia

Student Researcher

Jan 2023 – Jul 2025

- Developed a novel graph neural network-based method for entity resolution in knowledge graphs using link prediction techniques, achieving a 14% improvement in accuracy over baseline methods using **PyTorch**.
- Built a dataset conversion module for RAS's graph neural networks framework enabling interoperability between **NetworkX** and **PyTorch**, streamlining graph preprocessing and expanding framework flexibility.

Lomonosov Moscow State University

Moscow, Russia

Teaching Assistant

Sep 2024 – Jun 2025

- Provided mentorship to 50+ students in a Machine Learning course, clarifying core concepts (Random Forest, Gradient Boosting, SVM, PCA, classification, regression) and boosting engagement and understanding through office hours.

TheStage AI

remote, DE, United States

Machine Learning Engineer Intern

Jun 2024 – Sep 2024

- Integrated TheStage AI's internal quantization library with EleutherAI's "lm-evaluation-harness" by developing a custom model adapter, enabling standardized benchmarking of optimized/quantized LLMs (beyond Hugging Face models), accelerating research scientists' ability to run on-the-fly evaluations.

LEADERSHIP

Lomonosov Moscow State University

Moscow, Russia

Events Team Leader

Sep 2021 – Jun 2025

- Planned and coordinated event logistics for faculty-wide gatherings of 200-500 attendees, ensuring smooth execution and high participation.
- Promoted events through information stalls, campaigns, and student outreach, increasing attendance and engagement across the student body by 20%.

SKILLS

Languages: Python, SQL (PostgreSQL), C, C++

Tools & Technologies: Git, CI/CD, Jupyter Notebook, vim, Bash, AWS, Apache Spark

Libraries: pytorch, pandas, numpy, matplotlib, scipy, scikit-learn, nltk, transformers, diffusers