Egor Andreasyan



19 years old, Student, Faculty of Artificial Intelligence Technologies (FAIT), ITMO University

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Education

ITMO University *Saint Petersburg, Russia*

Faculty of Artificial Intelligence Technologies (FAIT) *2025 – present*

- Second-year bachelor's student, programme: Artificial Intelligence Engineering.

Tech Stack

AI Specializations	Big Data Analytics, Image/Video Classification and Segmentation, Object Detection, Natural Language Processing, RAG systems
AI Frameworks & Tools	PyTorch, TensorFlow, Transformers, LangChain, LoRA, OpenCV, Roboflow, Torchvision, Matplotlib, Seaborn, Plotly, NumPy, Pandas
Backend & Databases	FastAPI, Flask, SQL (PostgreSQL), SQLAlchemy, SupaBase
Infrastructure	Git, Docker, Docker Compose, S3, Linux/Bash

Experience

Paid internship at an accelerator *Remote, Russia*

ML Engineer Intern *September 2023 – January 2024*

- Development of a wildfire segmentation system.
- Data research and analysis, work with S3 storage.
- Data labelling and contribution to building the processing pipeline.

SberDevices *Remote, Russia*

ML Engineer *July 2025 – January 2026*

- Development and improvement of machine learning models.
- Optimisation and deployment of models into the production pipeline.
- Participation in research and data analysis to improve model quality.

BTS Service, multi-agent LLM system for CNC machine repair *Remote, Russia*

Tech-Lead, ML Engineer, Backend Developer *January 2026 – April 2026*

- Designed the application architecture for an AI agent (an assistant for diagnosing and repairing CNC machines).
- Implemented and optimised asynchronous interaction between agents via API.
- Designed the database structure and set up the integration with PostgreSQL.
- Containerised the project with Docker and Docker Compose for straightforward deployment.

Ecom Tech *Remote, Russia*

Data Scientist *June 2026 – present*

- Data research and the search for patterns to solve product problems.
- Analysis and evaluation of ML/DL hypotheses, determining their technical feasibility and expected effectiveness.
- Research of scientific papers, SOTA models and open solutions with subsequent adaptation to business problems.
- Development of prototypes, running experiments and rolling out ML solutions to production.

Projects and Awards

Novosibirsk Region Governor's Cup in AI and Computer Vision
Novosibirsk, Russia

CV Engineer / *Team and individual standings (1st place)* *2023*

- Developed a computer vision system for autonomous robot navigation along road markings.
- Implemented real-time detection and classification of road signs and traffic light signals.
- Designed and tuned a PID controller for trajectory control based on camera data.

All-Russian Olympiad in Artificial Intelligence
Moscow, Russia

Finalist *2023*

- Solved a CTR (Click-Through Rate) prediction task: built a model estimating the probability of a user clicking an advertisement based on historical data.
- Implemented a ranking algorithm for a multimodal task: determining the relevance of an image to a search query (Image-Text Matching).

NTO: Autonomous Transport Systems (Moscow Polytechnic University)
Moscow, Russia

Team-lead, CV Engineer / *Finalist* *2023 – 2024*

- Led a team of 4: assigned tasks, tracked deadlines and owned the integration of system modules.
- Designed the interaction architecture between a driverless vehicle, a UAV and a sorting hub for logistics automation.
- Built a drone-based monitoring system: implemented real-time recognition of emergency types and assessment of road conditions.
- Implemented the server side for data exchange between the driverless vehicle, the UAV and the sorting hub.

Innopolis Open International Olympiad, Artificial Intelligence track
Innopolis, Russia

Prizewinner *2024*

NTO: Big Data and Machine Learning (ITMO University, partner VK)
Saint Petersburg, Russia

Team-lead, ML Engineer / *Finalist* *2023 – 2024*

- Led a team of 2: coordinated the development process, owned the final stack choice and the ML service integration.
- Developed a recommender system algorithm for personalised post selection on the Odnoklassniki social network.
- Ran experiments with various user and content embedding strategies to improve the relevance of results.

NTO: Artificial Intelligence (HSE University, partner Sber)
Moscow, Russia

Team-lead, ML Engineer / *Finalist* *2023 – 2024*

- Led the ML development of a system accelerating the search for radiopharmaceuticals (targeted tumour therapy).
- Implemented an algorithm for the directed generation of chelator molecules with specified physico-chemical properties for binding radionuclides.
- Developed a regression model for predicting the lipophilicity (LogP) of small organic molecules.

All-Russian Open Source Projects Competition
Russia

Team-lead, Backend Developer / *16th place among the 50 best Open Source projects in Russia* *2024*

- Led the development and successfully rolled out a digital timetable ecosystem at an educational institution (Lyceum No. 22 "Nadezhda Sibiri").
- Developed the backend for parsing and synchronising data from the Google Sheets API, providing automatic real-time timetable updates.
- The project made the Russian top 16 among 100+ finalists of the Open Source projects competition.

All-Russian Olympiad in Artificial Intelligence (MIPT)
Moscow, Russia

Finalist *2024*

- Solved a task estimating ATM customer flow based on geodata and location characteristics.
- Implemented a text content plagiarism detection system.

AI Challenge 2024: task by Samolet (Development track)
Moscow, Russia

Team-lead ML Engineer / *3rd place (International final)* *2024*

- Led a team of 4 developing a scoring system to estimate the default probability of construction contractors.
- Ran in-depth exploratory data analysis (EDA) and multi-stage feature selection to work with imbalanced data.
- Developed a training and validation pipeline for ensemble models, achieving strong generalisation on the hold-out set.

Digital Breakthrough: AI, Russian Railways case "Automatic processing of employment record books"
Yekaterinburg (Ural Federal District), Russia

Team-lead ML Engineer / *Team in the Russian top 5* *May 2024*

- Led a team of 4: designed the service architecture, ran code reviews and coordinated the integration of ML modules into the web interface.
- Researched (R&D) modern HWR architectures for Cyrillic and implemented an algorithm for post-processing and correcting recognition errors.
- Provided data export in a structured JSON format with manual validation, which significantly reduced document processing time.

Digital Breakthrough: AI, Russian Railways case "Building a model for forming and forecasting the efficiency rating of vehicle fleets across company divisions"
Vladivostok (Far Eastern Federal District), Russia

Team-lead Data Analyst / *Team in the Russian top 5* *May 2024*

- Led a team of 3 building a system for intelligent monitoring and forecasting of vehicle fleet efficiency.
- Designed and justified a system of key metrics (KPIs) for rating company divisions based on operational data.

Digital Breakthrough: AI, Beeline case ”Licence plate alignment”

Grozny (North Caucasian Federal District), Russia

Team-lead CV Engineer / *Team in the Russian top 5* *June 2024*

- Led a team of 4: designed the architecture of the licence plate photo preprocessing module and ran regular code reviews.
- Developed the architecture of a segmentation model for accurate detection of licence plate borders and key points.

Digital Breakthrough: AI, Ministry of Natural Resources case ”Predictive assessment of wildfire occurrence”

Omsk (Siberian Federal District), Russia

Team-lead ML Engineer / *Team in the Russian top 4* *July 2024*

- Led a team of 4: owned the system architecture and code quality (code review) while developing a wildfire prediction model.
- Developed a U-Net based segmentation model producing mask maps of potential ignition points from satellite imagery.
- Implemented a multimodal data integration pipeline: combined visual features of the territory with meteorological indicators to improve forecast accuracy.

Digital Breakthrough: AI, RUTUBE case ”Solving the cold start problem for new users”

Saint Petersburg (Northwestern Federal District), Russia

Team-lead ML Engineer / *Team in the Russian top 5* *September 2024*

- Led a team of 3: broke down the business problem, designed the recommender system architecture and coordinated development.
- Researched (R&D) strategies for overcoming the cold start problem for new users of the RUTUBE video platform.

International hackathon: AI, Sila case ”QnA bot for working with an application”

Nizhny Novgorod (Volga Federal District), Russia

Team-lead ML Engineer / *Team in the Russian top 5* *October 2024*

- Led a team of 3 developing an intelligent Q&A assistant to speed up users’ work in complex software.
- Developed a document processing and indexing pipeline (parsing & chunking) and set up a vector search system for relevant context retrieval.
- Tuned LLM parameters to minimise hallucinations and keep answers strictly aligned with the supplied documentation.

NTO: Neurotechnology and Cognitive Sciences (MSUPE)

Moscow, Russia

Team-lead ML Engineer / *Finalist* *2024 – 2025*

- Led a team of 4 developing a brain-computer interface (BCI) system for classifying neurophysiological signals.
- Developed an algorithm for processing and classifying the P300 evoked potential to recognise user commands.
- Implemented a system for collecting and preprocessing biosignals (EEG and EMG), including artefact filtering and frequency-domain feature extraction.

NTO: Big Data and Machine Learning (ITMO University, partner VK)

Saint Petersburg, Russia

ML Engineer / *Prizewinner (individual standings)* *2024 – 2025*

- Developed a multimodal model with the team for predicting engagement metrics (likes, shares, comments) from the content of VK posts.
- Ran extensive research (R&D) into various architectures for extracting features from text (NLP) and images (CV) and aggregating them.
- Optimised the training process on the large volumes of data provided by the VK social network.
- Containerised the solution with Docker, ensuring a reproducible environment and convenient model deployment.

NTO: Artificial Intelligence (HSE University, partner Sber)

Moscow, Russia

Team-lead ML Engineer / *Winner in individual standings / Winner in team standings* *2024 – 2025*

- Led the team developing a system for the automatic identification of Amur tigers from camera trap data.
- Ran extensive R&D on finding and adapting SOTA architectures for object detection and classification in the wild.
- Implemented a pipeline for processing low-quality and noisy images, solving the problem of high variability in angles and lighting.
- Achieved high recognition accuracy of unique coat patterns, which made it possible to automate population monitoring.

AI Challenge 2025: task by Sber CIZ ”Building an AI judge for assessing the quality of an electronic pharmacist” (Student track)

Moscow, Russia

ML Engineer / *3rd place (International final)* *2025*

- Developed an ”AI judge” system for assessing the quality of an electronic pharmacist’s work.
- Ran a comparative analysis (benchmarking) and demonstrated that LLMs are ineffective for this task compared with classical ML architectures.
- Designed a high-performance pipeline based on gradient boosting and custom feature engineering.
- Implemented the logic for assessing the relevance and safety of the electronic pharmacist’s recommendations.