

Anastasiia Semina

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EXPERIENCE

- Gazprom Automation-Service** | *Engineer* Feb. 2024 - Present
 I engaged in a project focused on forecasting production volumes and identifying critical production plant metrics to optimize operational efficiency.
- BIA Technologies** | *Junior Programmer Trainee – Junior Machine Learning Engineer* Aug. 2022 - Aug. 2023
- **Automation of planning process**
 I automated task planning in Jira by gathering requirements, assessing tools and algorithms for optimal task allocation, coding the solution, and collaborating with a user interface designer. The planning process was comprehensive, it considered factors like deadlines, priorities, sequencing, people competencies, and capabilities, using technologies like OptaPlanner and DoCPLEX.
 - **Layoff Prediction and Employee Attrition Analysis**
 I developed a predictive model to forecast layoffs and analyze employee attrition reasons, aiming to proactively address retention issues and reduce turnover.
- Gazprom Invest** | *Junior Business Analyst* June 2022 - July 2022
 I wrote technical and design specifications for the implementation of a 1C database and user interface for recording violations in production.

SKILLS

Languages: Python, SQL, C++, Java/Kotlin, L^AT_EX
Tools: Git/GitHub, Bash, PyCharm, VS Code, MS Office, Atlassian Jira, Atlassian Confluence, Docker
Libraries: pandas, pumpy, matplotlib, seaborn, sklearn, opencv, pytorch, ultralytics, nltk, gensim, spacy, cplex, pyomo

EDUCATION

- Master's in Artificial Intelligence** Sep. 2023 – Aug. 2025
ITMO University *Current GPA: 5.0/5.0*
- Bachelor's in Informational Systems and Technologies** Sep. 2019 – Aug. 2023
ITMO University *GPA: 4.0/5.0*
- Project and Product Management** 2022
Tinkoff courses
- Digital marketing** 2021
Tinkoff courses

PROJECTS AND COURSES

- RoadSignsDetector** | *YOLOv8, RTMDet* 2023
 Web application for real time road signs detection.
- Computer Vision course** | *Multi-class classification, Anomaly detection, Self-supervised learning* 2023
- ResNet realisation in pytorch.
 - Experiments with variational autoencoder.
 - Multi-class classification with training on a dataset missing certain labels.
- Prompt engineering for Stable Diffusion** 2023
 Prompt engineering and models compare for a project that helps individuals create social media photos by automatically generating images with their faces.

ACHIEVEMENTS

- MegaOlympiad ITMO** 2023
- Artificial Intelligence - Top 5 out of 200+ participants.
 - Game-theoretic modeling - Top 3 out of 90+ participants.