

Danil Romanovich Kartushov

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EDUCATION

- **ITMO University** Saint Petersburg, Russia
Master of Artificial Intelligence Sep. 2023 - Present
- **Plekhanov Russian University of Economics** Moscow, Russia
Bachelor of Applied Mathematics and Informatics Sep. 2019 - May 2023

EXPERIENCE

- **Automacon Datalab** Moscow, Russia
ML Engineer July 2023 - Present
 - **Ranking Model Development:** Implemented a ranking model using CatBoost, improving the MAP metric by 11% and increasing total revenue by 1.8% through more accurate product ranking.
 - **Knowledge Distillation:** Integrated simpler models via knowledge distillation from complex models, reducing training time and computational resources.
 - **Pipeline Automation:** Automated the recommendation system pipeline using Polars, Airflow and MLFlow, reducing data processing time and enhancing system resilience.
- **Karpov Courses: Simulator ML** Moscow, Russia
Junior Author September 2022 - April 2024
 - **Recommendation Systems for Streaming Service:** Developed learning tasks related to recommendation systems, including a recommendation engine for a streaming service to teach students practical skills in machine learning.
 - **NDCG Metric Implementation:** Designed and implemented the NDCG metric for evaluating recommendation quality, helping students understand ranking and model optimization concepts.
 - **PostFinder Project:** Developed PostFinder, an intelligent assistant for content search among Telegram channels, capable of summarizing and answering questions based on found content.
- **Scientific Laboratory "Applied Modeling"** Moscow, Russia
Research Assistant January 2021 - September 2022
 - **Reinforcement Learning Algorithm:** Developed and tested a reinforcement learning algorithm for the traveling salesman problem, achieving a 10x speed increase over traditional methods like evolutionary algorithms. Draft of the research paper is available on GitHub.

PROFESSIONAL SKILLS

- **Programming Languages:** Python, Bash, SQL
- **Technologies:** Git, Pandas, Polars, Numpy, Scikit-learn, Catboost, XGBoost, LGBM, PyTorch, FastAPI, Airflow, MLFlow, Docker

COURSES

- **Yandex Practicum x 2035:** Professional development course "Data Analyst, University 2035"

ADDITIONAL INFORMATION

- **Telegram Blog:** Author of a popular Telegram channel dedicated to artificial intelligence and machine learning.