DMITRY BERESNEV

d.beresnev.work@gmail.com | dsomni | Telegram | +7 (905) 871–41–60 | Innopolis, Russia

SUMMARY

MSc in Computer Science student specializing in AI and Data Science with a deep research interest in Mathematical Optimization and classical Deep Reinforcement Learning (DQN, A2C, REINFORCE). Experienced in developing and implementing novel models and functional ML pipelines using PyTorch. Proven ability to lead projects from conception to deployment, including developing an EdTech platform used by educational organizations. Seeking a challenging R&D role to contribute to state-of-the-art machine learning solutions.

EDUCATION

MSc in Computer Science

2024 — 2026 | Innopolis University

- **Field of study:** AI and Data Science
- **Relevant Coursework:** High Dimensional Data Analysis, Linear Optimization, Advanced Statistics, Advanced Machine Learning, Reinforcement Learning

BSc in Computer Science

2020 — 2024 | Innopolis University

- **Field of study:** AI and Data Science
- **GPA:** 4.95/5.0
- **Thesis:** Text plagiarism detection in the field of large language models using deep reinforcement learning
- **Adviser:** Armen Beklaryan
- **Relevant Coursework:** Optimization Methods in Machine Learning, Reinforcement Learning, Natural Language Processing, Practical Deep Learning

RESEARCH EXPERIENCE

Huawei Wireless Project

Researcher, Data Scientist, ML Engineer

2024 — Present | ISP RAS & Innopolis University

- Designing and simulating AI models for wireless distribution devices to cell stations under time and resource constraints for Huawei
- Responsible for developing and implementing PyTorch models, creating and extension of training-testing pipeline and conducting experiments
- **Stack:** PyTorch, Numpy
- **Head:** Aleksandr Beznosikov

Text Plagiarism Detection in the Field of LLMs Using DRL

Researcher

2024 | Innopolis University, Thesis topic

- Designed and implemented a novel approach for text plagiarism detection using DRL, achieving best MSE of 0.108 on synthetic dataset
- Proposed three architectures based on the following DRL algorithms: DQN, A2C, and REINFORCE, with the best results achieved by the REINFORCE model
- **Stack:** PyTorch, Numpy, Pandas

WORK EXPERIENCE

Innopolis CIPR

ML Developer

2025

- Designing and implementing RAG pipeline over the proprietary Angular frontend repositories
- Responsible for building indexers (BallTree with pre-computed embeddings and partially Faiss) and connecting local generative models
- **Stack:** PyTorch, Docker, FastAPI

Gazprom CPS

ML Engineer

2024

- Designed and trained a predictive ML model to identify causes of defects in construction facilities under constrained resources, achieving 80% accuracy on a proprietary dataset
- Responsible for full working pipeline: data preprocessing, feature engineering, and model building and validation
- **Used concepts:** Tree-based models, MLP-based models, ensemble methods, Transformers
- **Stack:** PyTorch, Numpy, Scikit-learn, Pandas

Advanced Engineering school IU

ML Developer

2023

- Developing a code generation model using a transformer-based architecture in PyTorch
- Responsible for fine-tunning the Gorilla model on a proprietary dataset
- **Used concepts:** LLMs, Transformers, LoRa
- **Stack:** PyTorch, Numpy, Pandas

TEACHING EXPERIENCE

Teaching Assistant

Yandex Student Camp on Math in AI

July 2024 — Innopolis

Designed and provided materials for seminars and homeworks on the course 'Optimization Methods in Machine Learning' for the student groups under the guidance of Aleksandr Beznosikov

PROJECTS

Find-Your-Specialist

ML Developer

2025

- Designing and implementing RAG pipeline for simulating a conversations with a specialists from different spheres
- Responsible for deploying and connecting generative models and engineering the backend using FastAPI
- **Stack:** PyTorch, Docker, FastAPI

Accept School

Founder, Leader Developer

2023 — Present — Paradise Crane

- Led the full-stack design and development of an online platform for improving programming skills, currently utilized in 5+ educational organizations and about 500 people
- Developing the code plagiarism detection system based using ML under response time constraints and generative AI for hint suggestions using open source LLMs

- Responsible for defining development and operational process, engineering the backend using FastAPI and MongoDB, and the frontend with Next.js
- **Stack:** Torch, FastApi, Next.js, MongoDB, Docker, Apache Kafka

SKILLS

Ml & Data Science

PyTorch, Numpy, Scikit-learn, Pandas, JAX

Programming Languages

Python, Typescript, C/C++, Rust, Java, Haskell

Tools & Platforms

Docker, Git, LaTeX, Postman

Web & Databases

FastAPI, Next.js, Astro, PostgreSQL, MongoDB

LANGUAGES

Russian ●●●●●

English ●●●●○