

**Damir Abdulayev**

**ML engineer**

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## Professional Experience

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**Innopolis University**

May 2023 - December 2023

Junior Data Scientist

- My responsibilities includes **research, training and creation of large language models (LLMs)**.

- **Also it includes development of methods for optimizing and adapting LLMs** for efficient deployment on mobile devices, web services and extensions, including the **latest quantization and distillation techniques (GPT-Q, NF4 or GGML, SODA and etc.)**.

## Education

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**Innopolis University at Innopolis**

September 2021 - May 2025

Bachelor of Software Engineering in Data Science

**GPA: 4.51/5.0**

**Key Courses:** Applied Artificial Intelligence, Introduction to Machine learning, Natural language processing, Databases, Data Mining, Introduction to Big Data, Statistics for Data Science, Data Structure and Algorithms, Introduction to Computer Vision, Generative Artificial intelligence

**Тинькофф Образование "Алгоритмы и структуры данных"**

September 2022 - December 2022

**Deep learning school MIPT "Курс по машинному обучению"**

September 2022 - April 2023

## Projects

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**Games Recommender System on Steam Dataset**

The recommendation system employs a hybrid approach, combining collaborative filtering and content-based filtering techniques to provide personalized game suggestions. (**LightFM, Recommender System, Steam dataset**).

[Project page](#)

[Medium blog post](#)

**Model for music-to-image generation**

The project's goal is to convert music into visual artwork using CLIP sound embedding and Stable Diffusion model. (**Diffusion model, image generating, multimodal systm, sound embeddings**).

[Project page](#)

**Super Mario Bros AI agent**

This project focuses on training an AI agent to play the popular game Super Mario Bros using reinforcement learning techniques. (**Q-learning, CV, CNN, open-ai gym**).

[Project page](#)

**Text Detoxification**

The text detoxification project is aimed at developing robust and efficient solutions to cleanse text data of harmful, offensive, or inappropriate content. (**NLP, LLM, HuggingFace**).

[Project page](#)

**Mushroomity**

A mobile cross-platform application recognizing the type of mushroom from a photograph. Application build on Xception CNN model trained on ImageNET. (**CV, Deep Learning, Xception CNN, Flutter**).

[Project page](#)

## Achievements

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**Hackaton "Цифровой прорыв" case from Scholtech.  
Infrastructure object recognition using satellite data.**

November 2023 - December 2023

**Results:** 2th place (winners) overall in Beginners category

[Hackathon solution Github Page](#)

**Hackathon "DataWagon"**

October 2023 - November 2023

**Results:** 8th place overall in solution quality

[Hackathon solution Github Page](#)

## Languages

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- **Russian** - C2 (Mother tongue)
- **English** - C1 (IELTS band 7.0)

## Key Skills

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- **Programming Languages:** Python, Java, C++
- **Machine Learning:** Scikit-learn, NetworkX, Catboost, Pandas, NumPy, Matplotlib, TensorFlow
- **Deep Learning:** PyTorch, Huggingface, NLP, CV, RecSys
- **ML Ops:** Docker, PostgreSQL, GIT, Bash