

DAMIR ABDULAYEV

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Machine Learning Engineer

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EXPERIENCE

Junior Data Scientist (LLM) (HuggingFace) (Transformers) (Quantization) (Distillation) May 2023 – Feb 2024
Innopolis University, "PIIIII" LLM research team Innopolis, Russia

- 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.).

Junior Machine Learning Engineer (LLM) (HuggingFace) (Transformers) (RecSys) March 2024 – Present
INNOPROG, ML team Innopolis, Russia

- Creation of a Large Language Model for generating programming problems based on topic students learned
- Creation of Recommendation System of problems for programming school students based on their skills and previous learning successes

EDUCATION

Innopolis University Innopolis, Russia
Bachelor of Data Science in Computer Science Sep. 2021 – Sep. 2025

- GPA: 4.56/5.0
- Key Courses: Introduction to Machine learning, Natural language processing, Databases, Introduction to Big Data, Statistics for Data Science, Introduction to Computer Vision, Generative Artificial intelligence

Тинькофф Образование
"Алгоритмы и структуры данных" Sep. 2022 – Dec. 2022

PROJECTS

Games Recommender System (RecSys) (LightFM) (Hybrid Model) (Python) (PyTorch)

- The recommendation system employs a hybrid approach, combining collaborative filtering and content-based filtering techniques to provide personalized game suggestions based on Steam Dataset.

[Project page](#)

[Medium blog post](#)

Music-to-image generation (CV) (Diffusion model) (Image generation) (Sound embeddings)

- The project's goal is to convert music into visual artwork using CLIP sound embedding and Diffusion model.

[Project page](#)

Mushroomity (CV) (DL) (Xception CNN) (Flutter) (Transfer learning) (Python) (PyTorch)

- A mobile cross-platform application recognizing the type of mushroom from a photograph. Application build on Xception CNN model trained on ImageNET.

[Project page](#)

Hackaton "Цифровой прорыв" (CV) (U-net) (Semantic Segmentation)

- Infrastructure object recognition using satellite data case from Scholtech. Results: 2th place (winners) overall in Beginners category

[Project page](#)

Super Mario Bros AI agent (CV) (Reinforcement learning) (Q-learning) (open-ai gym)

- This project focuses on training an AI agent to play the popular game Super Mario Bros using reinforcement learning techniques.

[Project page](#)

TECHNICAL SKILLS

Languages: Python, Java, C++

Data Science: Pandas, NumPy, Matplotlib, seaborn

Machine Learning: Scikit-learn, NetworkX, Catboost, LightGBM, XGBoost opencv

Deep Learning: PyTorch, Huggingface, NLP, CV, RecSys

MLOps: Docker, PostgreSQL, GIT, Bash, PySpark, neo4j, MongoDB, Apache Casandra

Languages: Russian (Native), English (Fluent)