DAMIR ABDULAYEV

GitHub: ◉ SpeedFireF

Machine Learning Engineer

Languages: Russian (Native), English (Fluent)

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EXPERIENCE

Machine Learning Engineer (Time series) (Classic ML) (Financial Data) (Quant) September 2024 – Present
Diginavis, Fond team *Russia*
- Designed and developed machine learning-based trading algorithms for stock markets, working with time series data to optimize accuracy and execution efficiency.
- Built and deployed end-to-end ML pipelines, handling data collection, preprocessing, model training, validation, and production deployment for financial market strategies.

Junior Machine Learning Engineer (NLP) (LLM) (BERT) (Classic ML) June 2024 – September 2024
MTS DIGITAL, ADP AI team *Russia*
- Transformed an internal service into a chatbot, using an LLM to generate and execute SQL queries, delivering cellular service data results in an easily readable chat format and via Excel export.
- Developed a lightweight, deployable BERT-like model to refine search results by filtering false positives, then aggregated and analyzed the data for accurate storage fault identification.

Machine Learning Engineer (LLM) (HuggingFace) (Transformers) (RecSys) March 2024 – June 2024
INNOPROG, ML team *Innopolis, Russia*
- Developed an LLM model for generating programming problems that works in pair with a recommendation system, tailoring difficulty and themes to individual student learning levels.
- Created a training dataset by implementing a knowledge distillation pipeline, using a GPT model as the teacher for efficient model training.

Data Scientist Researcher (LLM) (HuggingFace) (Quantization) (Distillation) May 2023 – Feb 2024
Innopolis University, "ПИШ"LLM research team *Innopolis, Russia*
- 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.
- Conducted research and implemented model compression techniques to optimize an LLM for generating GitHub commit messages, enabling real-time performance in a microservice with limited computing resources.

EDUCATION

Innopolis University Innopolis, Russia
Bachelor of Data Science in Computer Science *Sep. 2021 – Sep. 2025*
- GPA: 4.5/5.0
- Key Courses: Machine learning, Deep learning, Natural language processing, Computer Vision, Generative Artificial intelligence, Databases, Big Data, Statistics for Data Science, Linear Algebra, Mathematical Analysis

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

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

TECHNICAL SKILLS

Data Science: Python, Pandas, NumPy, Matplotlib, Seaborn, SciPy
Machine Learning: Scikit-learn, NetworkX, Catboost, LightGBM, XGBoost, opencv
Deep Learning: PyTorch, Huggingface, NLP, Transformers, CV, RecSys
MLOps: PostgreSQL, neo4j, MongoDB, PySpark, Docker, GIT, Hadoop, DVC,