Dmitry Zhogin

ML Engineer

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Summary

ML Engineer with experience building production-grade AI systems, including LLM-based and multi-agent architectures. Proven track record of developing real estate automation solutions, leading engineering teams, and deploying scalable ML services. Strong background in RAG systems, model fine-tuning, and backend infrastructure.

Experience

ML Engineer / Tech Lead — **OPENCITY** | 12/2025 - Present

- Lead a team of 6 engineers: task planning, code reviews, and architectural decision-making
- Developed AI-powered platform for real estate search automation and deal analysis, which reduced managers responce time on average from one hour to 15 minutes
- Designed mortgage and installment programme parsing pipeline from natural language to structured data, that allowed to automate database updates with 90% success rate
- Presented and successfully pitched the project at Skolkovo Innovation Center with my team members

ML Engineer (Part-time) — **OPENCITY** | 07/2025 - 12/2025

- Optimized database architecture for RAG pipelines, improving data consistency and retrieval quality
- Fine-tuned LLM models for controlled tone and response accuracy in production use cases
- Built backend services using FastAPI, nginx, and Docker Compose
- Deployed and maintained infrastructure in Yandex Cloud, including VPN configuration

Programmer-Engineer — **Television Scientific Research Institute** | 08/2025 - 01/2026

- Contributed to development of hydrometeorological software (NDA project)

Education

SPbSUT

Information Systems and Technologies | 09/2021 - 08/2025

- Thesis: Mobile AI application for sign language translation using computer vision and deep learning

Courses

IT Leaders of Tomorrow — Innopolis University | 08/2024 - 01/2025

Natural Language Processing — Yandex Practicum | 01/2026 - 03/2026

Skills

Machine Learning & AI:
PyTorch, TensorFlow, Scikit-learn, CatBoost, OpenCV, LLMs, RAG, LangChain, LangGraph

Backend & APIs:
FastAPI, REST APIs, microservices architecture

MLOps & Infrastructure:
Docker, MLflow, Langfuse, Yandex Cloud, Linux

Databases:
PostgreSQL, pgvector, LanceDB, MongoDB

Tools & Practices:
Git, Agile, system design, UML