

Bayram Aliyev

Machine Learning & AI Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

ABOUT ME

Machine Learning Engineer who enjoys turning ideas into practical, reliable AI products. I have hands-on experience building and deploying end-to-end systems for search, question-answering, and prediction from developing a model to shipping it as a working application. I'm eager to keep growing and to contribute to meaningful, real-world machine learning projects.

EDUCATION

French-Azerbaijani University

Bachelor's in Computer Science

Sep 2023 – Present

EXPERIENCE

AI Engineer Intern

4SİM Azərbaycan / C4IR Azerbaijan

Hybrid

July 2025 – November 2025

- Developed LLM-based chatbot systems using the Gemini API, applying prompt engineering to improve response quality and task-specific accuracy
- Built RAG pipelines with a FAISS vector store for Q&A over large document collections, and contributed to NLP work including text summarization

Researcher – UFAZ Robotics Club

Sep 2024 – Mar 2026

Organizer – EYP Azerbaijan, Gabala (11th Outreach Session)

Mar 2025 – May 2025

Volunteer – UN Climate Change Conference (COP29), Baku

Nov 2024

PROJECTS

Azercell Policy Assistant (LLM RAG Chatbot)

GitHub

Python, FastAPI, AWS Bedrock

- Built a multi-session RAG chatbot with FastAPI and AWS Bedrock to answer questions on corporate policies, ethics, and internal documentation
- Shipped a Dockerized full-stack app (Streamlit frontend, vector-based retrieval) with CI/CD automation via GitHub Actions

Multilingual Text-to-Image Retrieval (Fine-tuned mCLIP)

GitHub

Python, PyTorch, FastAPI

- Fine-tuned a multilingual CLIP model to search a 5,000-image gallery via text (6 languages), image, or speech input (OpenAI Whisper)
- Served the models through a FastAPI REST API with FAISS retrieval and cosine re-ranking, plus an interactive demo frontend

Multi-Source Research Agent (LLM Search Assistant)

GitHub

Python, LangGraph, LangChain, Google Gemini

- Answers questions by querying Google, Bing & Reddit in parallel, then synthesizing one cited answer with Gemini
- Orchestrated as a multi-stage LangGraph pipeline (fan-out search, URL selection, per-source analysis, synthesis) over third-party data APIs

House Price Prediction (Multimodal ML System)

GitHub

CLIP, MLP, scikit-learn, PyTorch, FastAPI — Team project (4 members)

- Scraped and processed a multimodal dataset (tabular + images) and built tabular regression models with ExtraTreesRegressor
- Combined CLIP image embeddings with tabular data via an MLP and deployed the model for real-time predictions through FastAPI

ACHIEVEMENTS

- DataMinds** (Azercell & AWS, 2025): 7-week bootcamp on AI, Data Science, and ML
- DigiRise** (Harbour.Space & IDDA, 2024–2025): 11-month training in AI and Software Engineering
- Digital LevelUP** (Oracle & IDDA, 2025): 4-month Data Science program with Oracle Cloud cert prep
- Hackathons** (StudUp & Alertify, 2025): Built an AI academic-roadmap tool and an AI text-analysis tool

CERTIFICATIONS

Oracle Cloud Infrastructure (OCI), 2025: Data Science Professional, AI Foundations Associate, and Foundations Associate

TECHNICAL SKILLS

Languages/Tools: Python, C/C++, Java, SQL (MySQL, PostgreSQL), Git, Docker

Frameworks/Libraries: Django, FastAPI, Streamlit, Pandas, NumPy, Scikit-learn, PyTorch, LangChain, LangGraph

LANGUAGES & EXPERTISE

Languages: Azerbaijani (Native), English (Fluent – B2), French (Beginner – A1)

Soft Skills: Leadership, Problem Solving, Critical Thinking, Team Collaboration