Nurana Rustamli

AI Engineer | Applied Machine Learning Engineer
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Education

University College London (UCL)
MSc Data Science and Machine Learning (With Merit) | 2024-2025

Applied Machine Learning, Applied Deep Learning, Information Retrieval and Data Mining, Complex Networks and the Web, Blockchain

Baku State University
BSc Computer Science (1st class degree GPA = 89.91) | 2020-2024

Projects

DomainBERT - Academic Research Project
Protein Language Model that was trained that investigated tokenisation of domains.
GitHub (anonymised submission)

+ Investigated the development and application of protein language models for biological representation learning;
+ Built a custom Transformer encoder;
+ Trained it on 77M protein sequence dataset using domains as tokens;
+ Analysed the resulting embedding space to explore biological relationships between proteins;

Spot The Artist

AI-powered web application for real-time artwork verification and digital archiving.
GitHub | Live Site

+ Built an image similarity pipeline using CLIP embeddings and cosine similarity search;
+ Developed prototype interface for artwork upload and user registration;
+ Implemented top-k similarity aggregation for automated artwork matching;
+ Reduced false positives by calibrating an 80% similarity confidence threshold;
+ Designed scalable Firestore schema with optimised image compression;
+ Containerised the application with Docker and deployed to Google Cloud Run via CI/CD;

GenNard

AI-powered 3D backgammon web game that generates custom board and checker textures from natural language prompts.
GitHub | Live Site

+ Built an LLM-driven prompt interpreter to generate board and checker textures from natural language prompts;

+ Integrated asset generation with the real-time game rendering pipeline;
+Developed an interactive Three.js 3D game prototype interface rendered in the browser;
+Implemented parallel image generation pipeline with SHA-256 caching to reduce unnecessary computation;

Skills

Programming: **Python, SQL**
Machine Learning & Data Science: **PyTorch, NumPy, Pandas**
Web Development: **HTML, CSS, Node.js**
Cloud & Deployment: **Docker, Google Cloud Run, Firebase, CI/CD**
Tools: **Git, GitHub, Claude Code, Colab, Figma**

Languages

English (IELTS 7.5), **Russian** (native), **Azerbaijani** (native), **Turkish** (fluent)