

Mirjafar Jafarzadeh

ML / AI ENGINEER · COMPUTER ENGINEERING

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SUMMARY

ML/AI engineer with a first-principles approach to machine learning systems — implementing forward passes, deriving gradients by hand, and writing training loops without abstraction. My conviction is that genuine understanding of a system requires having built it, and that the mathematical substrate of a model is not separable from its engineering reality.

Primary technical focus: deep learning, natural language processing, large language models, and computer vision. Developing interest in quantum computing at the level of quantum circuits and gate-model computation via Qiskit. Building toward a research-grade understanding of probability theory, real analysis, and the linear-algebraic foundations of optimization.

EDUCATION

Middle East Technical University

(Baku Campus)
Türkiye-Azerbaijan University
2024 — 2029
Baku, Azerbaijan

B.Sc. Computer Engineering — Dual Enrollment

- Mathematics: Calculus, Multivariable Calculus, Linear Algebra, Differential Equations, Statistical Methods
- Programming: C, Intro to CE Concepts, Programming Language Concepts
- Theory: Data Structures, Algorithms, Discrete Computational Structures, Formal Languages & Abstract Machines
- Systems: Computer Organization, Logic Design, Operating Systems, Embedded Systems, Electrical Circuits
- Software: Software Engineering, Data Management & File Structures, Signals and Systems

DIV Academy

2025 — 2026
Baku, Azerbaijan

ML / AI Engineering

- Machine Learning: supervised & unsupervised learning, model evaluation, feature engineering
- Deep Learning: neural network architectures, backpropagation, optimization techniques
- Computer Vision: image classification, object detection, convolutional networks
- NLP & LLMs: text processing, fine-tuning, prompt engineering
- RAG: vector databases, embedding pipelines, document QA systems
- End-to-end: model deployment, API integration, production-ready pipelines

VOLUNTEERING

Quantum Azerbaijan Society

2025 — Present
Baku, Azerbaijan

Co-Founder

- Co-founded a community dedicated to quantum computing and mechanics in Azerbaijan
- Established mission, structure, and editorial direction of the society
- Curate and publish articles on quantum computing and quantum mechanics
- Grow and engage a community of enthusiasts, students, and researchers across Azerbaijan

TECHNICAL SKILLS

LANGUAGES

Python · C / C++ · SQL / PostgreSQL

FRAMEWORKS

PyTorch · TensorFlow · NumPy · Scikit-Learn · Pandas · Matplotlib

ML DOMAINS

Deep Learning & Neural Architecture Design · NLP / LLMs · Computer Vision

MATHEMATICS

Multivariable Calculus · Linear Algebra · Probability Theory & Statistics · Real Analysis

DEV TOOLS

VS Code · Jupyter · Git · Docker

LANGUAGES

Azerbaijani — Native Turkish — Native English — Professional working proficiency