

Mahammad Karimzade

mahammadkarimzade@gmail.com | linkedin.com/in/karimzade | github.com/karimzade

SUMMARY

Electrical and Electronics Engineering graduate specializing in Machine Learning and AI, with practical experience in deep learning, NLP, and data-driven solutions.

WORK EXPERIENCE

Machine Learning Intern, GrifonAI – Ankara, Turkey Jan 2024 – Mar 2024

- Data visualization using Plotly, Seaborn, and Matplotlib.
- Tabular data cleaning and preprocessing.
- Time series modeling.

EDUCATION

Cankiri Karatekin University, Electrical and Electronics Engineering BSc. 2020 – 2025

- GPA: 3.22 / 4.0
- **Thesis:** Early Diagnosis of Alzheimer's Disease using Deep Neural Networks.

PROJECTS

Multimodal-HyDE-RAG System [GitHub Repo](#)
Advanced Document Q&A system with Multimodal OCR-based PDF parsing, HyDE-driven query expansion, hybrid retrieval (FAISS + BM25) and PostgreSQL-backed storage.

Sentinel [GitHub Repo](#)
Scans network devices with Nmap and fixing vulnerabilities with AI-Agent system.

Blog-Agent [GitHub Repo](#)
AI-powered SEO blog generator with Google Gemini, multi-engine web search without paid APIs (SearX, DuckDuckGo, Bing, Yandex), Streamlit UI and FastAPI backend.

SKILLS & LANGUAGES

Technical Skills: Machine Learning, Deep Learning, Natural Language Processing, PyTorch, Scikit-learn, Pandas, Numpy, Git.

Languages: Azerbaijani (Native), Turkish (Bilingual), English (Intermediate).

CERTIFICATIONS

Machine Learning Specialization, *deeplearning.ai* - Coursera Jan 2024

Math for ML & Data Science, *deeplearning.ai* - Coursera May 2023

Agents Course, *Hugging Face Instructors* June 2025

WRITING

DeepSeek-R1 Reasoning Technical Analysis [Medium Article](#)