

Muhammet Ozdemir

AI Engineer & Researcher

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SUMMARY

Available for full-time roles; lead developer on TUBITAK and TUSEB-funded AI and computer-vision research projects; developer of novel scientific methods in AutoML and AI contributing to the literature

EDUCATION

Erciyes University

B.S. in Computer Engineering

Kayseri, Turkiye

Sept. 2021 – June 2026

EXPERIENCE

Erciyes University Artificial Intelligence and Big Data Application and Research Center

AI Researcher (Full-time)

Remote

Oct. 2024 – Present

- With the support of the Computer Engineering Department and the Research Center, I conduct AutoML and AI optimization research, publish in SCI/E-indexed venues, and work as a freelance researcher.

Erciyes University

AI Intern

Kayseri, Turkiye

Sept. 2024 – Jan. 2025

- Built and deployed a real-time, multi-camera CNN for campus access control, people counting, and ID verification end-to-end from design to production

PROJECTS

Development of AutoML Systems with Optimisation Algorithms

March 2024 – Present

- Developed optimisation-driven AutoML methods that automate preprocessing, NAS, activation and loss design, weight initialisation, and hyperparameter optimisation, contributing to SCI/E-indexed research outputs

Hybrid Mammography Analysis: Early Breast-Cancer Detection with Hybrid CNN Architectures

- Built hybrid CNN on 4,000+ mammograms for lesion detection; achieved >90% BI-RADS accuracy and became a national finalist presenting in Antalya (TUSEB & Ministry of Health funded)

ML-Based Customer Matching and Product Recommendation System

2023

- Built hybrid ML engine combining clustering and user/item-based collaborative filtering; achieved >90% match accuracy and integrated into POS/mobile apps (Tubitak funded)

TECHNICAL SKILLS

Domains: AI Research, AI Optimisation, AutoML, Computer Vision, Machine Learning, Deep Learning

Applied Areas: Image Processing, Data Analysis, MLOps

Tools: Python, PyTorch, SQL, Pandas, NumPy, Scikit-learn, OpenCV, Matplotlib, CUDA, Git

PUBLICATIONS

Automatic Design of Deep Neural Network Activation Functions Using Genetic Programming (Gazi University Journal of Engineering and Architecture - SCI/E)

Analysis of Evolutionary and Genetic Programming Mutation Operators for Automated Activation Function Design in Deep Neural Networks (International Journal of Machine Learning and Cybernetics - SCI/E)

CERTIFICATIONS

St Giles International

English Language B1+ – B2

United Kingdom

Sept. 2025

ORGANIZATIONS

ERU AI Club

Founder, Club President, AI Project Team Leader

Turkiye

March 2024 – Present

- Led 20 CS students on 8 TUBITAK-funded AI projects and a TUSEB-backed health-AI initiative (national finalist), served as team lead and coordinator, and co-authored resulting publications