Muhammet Özdemir

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Summary

Muhammet Özdemir B.Sc. candidate, Computer Engineering, Erciyes University
Lead developer on TÜBİTAK- and TÜSEB-funded AI & computer-vision research projects
Developer of novel scientific methods in AutoML and AI, contributing to the literature
Founder, Club President, AI Project Team Leader

Experience

Erciyes University **Sept 2024 - Jan 2025**
AI Intern Kayseri, Türkiye

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.

ERU AI Club **March 2024 - Present**
Founder, Club Presdent, AI Project Team Leader

Led 20 CS students on 8 TÜBİTAK-funded AI projects and a TÜSEB-backed health-AI initiative (national finalist); served as team lead/coordinator and co-authored resulting publications.

Education

Erciyes University **Sept 2021 - June 2026**
Computer Engineering Bachelor's Degree

Projects

Development of AutoML Systems with Optimisation Algorithms **March 2024 - Present**

Developed optimisation-driven AutoML methods automating preprocessing, NAS, activation/loss design, weight initialisation and HPO—advancing the field with SCI/E-indexed publications.

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

TÜSEB-funded joint project with the Turkish Ministry of Health: built a hybrid CNN that processed 4,000 mammograms for lesion detection, achieving >90% BI-RADS accuracy; national finalist and presented in Antalya.

Machine Learning-Based Customer Matching and Product Recommendation System for

Built a hybrid ML engine that clusters business/customer data and combines user- and item-based collaborative filtering to deliver >90% match accuracy and tailored recommendations; integrated into existing POS and mobile apps.

Skills

AI Research	**AI Optimisation**	**AutoML**	**Computer Vision**
Machine Learning	**Deep Learning**	**image processing**	**Data Analysis**
MLOps	**Python**	**PyTorch**	**SQL**

Publications

Automatic Design of Deep Neural Network Activation Functions Using Genetic Programming
SCI/E