

Erdem SARI

AI & Machine Learning Engineer

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📍 Yukarı Bahçelievler Mahallesi 82.Sokak No.: 30/12 06490- Çankaya/Ankara

📅 1999-11-30 🇹🇷 T.C. (Turkish Citizen) 🧑 Single 🛡 Deferred until 2028

🌐 github.com/erdo99 🏹 Male



WORK Experience

Internship, ASELSAN Embedded C, STM32F series microcontrollers, GPIO, UART communication, TCP-based message exchange	07/07/2025 – 04/08/2025
Internship, Kuartis Technology Focused on Next.js and React.js	08/2024 – 09/2024
Part-time Work, TAI (Turkish Aerospace Industries) C, GDI+ library, image processing, image difference detection, user interface development	20/11/2025 – 06/02/2026

Projects

DroneSwarmRLNavigation-Multi-AgentReinforcementLearning(Python,PPO) 🔗 Implemented a reinforcement learning system for multi-drone navigation using Proximal Policy Optimization (PPO). Simulated centralized and decentralized coordination strategies, enabling multiple agents to navigate obstacles while maintaining formation.
ChromeDinoRL-DeepQ-LearningAgent(Python,DQN) 🔗 Built a reinforcement learning agent that learns to play the Chrome Dino game using Deep Q-Networks. Integrated training environment with Pygame and browser automation for real-time gameplay evaluation.
BlackWhite-to-Color-ImageColorizationwithU-Net(PyTorch,Gradio) 🔗 Developed a deep learning model for automatic image colorization in LAB color space using a U-Net architecture. Implemented training pipeline, data preprocessing, and optional user-guided color hints. Built an interactive Gradio interface for real-time inference and visualization.
OpenSCADAICodeGenerator(Python,LLM-based) 🔗 Developed an AI-powered system that generates OpenSCAD code from text or image inputs. Implemented few-shot learning, syntax validation, and self-correction loops to improve generation accuracy and reliability.

EDUCATION

Department of Computer Engineering, Gazi University Faculty of Engineering	2020 – 2026
Department of Mechanical Engineering, Gazi University Faculty of Engineering	2018 – 2024

AI & Machine Learning

- Python
- Autoencoders (image colorization from grayscale images)
- OpenCV
- Reinforcement Learning (basic implementations)
- Image Processing (difference detection, feature extraction)
- NumPy / Pandas

Computer Skills

MATLAB

Java

C#

AutoCAD

3d experience

JavaScript

PostgreSQL

and web design

Foreign Language

English

Advanced level

CERTIFICATIONS

Artificial Intelligence Training -

BilgeAdam Bilişim Grubu

Completed 48-hour training
program (July 6, 2025)

TEST SCORES

KPSS1, 78,15815

Result Verification Code: 0KH2KSMD

ALES - SAY, 75,90867

Result Verification Code: HMFVN9AE

YÖKDİL, 71,250

Result Verification Code: XFB7L2X5

CAREER OBJECTIVE

To contribute to the development of artificial intelligence-driven aerospace systems by combining my strong foundation in mechanical engineering with my skills in artificial intelligence, software development, and embedded systems. My goal is to apply AI-based approaches to complex engineering problems, enhance system performance and reliability, and create value-added, innovative solutions aligned with the company's advanced aerospace technologies.

PORTFOLIO

GitHub, github.com/erdo99

Vercel, vercel.com/erdo-99s-projects