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Profile

Computer Engineering and Software Engineering double major specializing in applied machine learning and AI system deployment. Experienced in designing ML pipelines and deploying them via RESTful APIs.

Projects

Akıllı Şehir Sağlık Haritası

Turkcell “Yarının Teknoloji Liderleri” – Team Captain – Finalist

- Built a scalable regional health risk mapping platform for any city or country.
- Designed a real-time scenario simulation panel for lifestyle-based risk analysis.
- Integrated an AI assistant for health advisory support for municipalities and insurers.

RAG-Based Kiosk Assistant

(Python, Hugging Face, Retrieval-Augmented Generation)

AI Future Minds’25 Hackathon – Team Captain

- Built a RAG system for construction-domain knowledge retrieval.
- Integrated Hugging Face models with a structured retrieval pipeline.
- Improved response relevance through prompt and retrieval optimization.

Diabetes Risk Prediction API

(Python, XGBoost, FastAPI, Pydantic, Scikit-learn)

- Built and deployed an end-to-end XGBoost-based diabetes risk prediction system.
- Served predictions via a FastAPI REST API with Pydantic validation.
- Evaluated performance using ROC-AUC, F1, and feature importance.

Autonomous Drone Control Simulation

(Python, PID Control, Numerical Methods, Unreal Engine 4.27)

CMPE443 – Real-Time Systems (Group Project)

- Modeled drone dynamics using Euler and RK4 methods.
- Designed and tuned a PID controller for stabilization.
- Evaluated control stability and system response in simulation.

Skills

Programming: Python, C/C++, Next.js, HTML, CSS

Machine Learning: Scikit-learn

Data & Evaluation: NumPy, Pandas, SHAP

Backend: Flask, FastAPI, RESTful APIs

Tools: Git

Education

Eastern Mediterranean University

Double Major: Software Engineering & Computer Engineering

2023 – Present

Near East College

A Level: Mathematics, Statistics, Physics, ICT

2019 – 2023