

Eren Balkis

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github.com/ErenBalkis

Education

Istanbul University, BS in Computer Science

Sept 2023 – June 2027

- GPA: 3.25/4.0
- **Coursework:** Artificial Intelligence, Machine Learning, Object Oriented Programming

Experience

AI Training Specialist, Outlier – Istanbul, Turkiye

May 2025 – Present

- I review the code written by AI systems developed specifically for companies, and I participate in their training by writing code when necessary.

Search Engine Quality Improvement Specialist, Gini Talent – Istanbul, Turkiye

Sept 2024 – June 2025

- I participated in Yandex search engine localization projects, contributing to increasing search query relevance rates.

Projects

CardioRisk AI

Github - Live Application

- A machine learning pipeline was designed by analysing 13 different clinical features and using **Scikit-learn**; outlier analysis using the **IQR** method, normalisation with **StandardScaler** and **one-hot encoding** were applied.
- Cardiovascular risk was analysed using the trained logistic regression model, and reliable results were obtained with a 90% accuracy rate on the test dataset.
- The prediction model was deployed on **Render** via a Pydantic-validated **FastAPI**, whilst the interactive web interface, designed using **Next.js** and **Tailwind CSS**, was deployed on **Vercel** as a **full-stack** solution.
- **Technologies Used:** Python, Scikit-learn, FastAPI, Next.js, Pandas, REST API, Tailwind CSS, Render, Vercel

Smart Transit AI

Github - Live Application

- An **AI-powered** smart city crowd management system was effectively developed utilizing **CSRNet** density map regression to monitor transit stop overcrowding in real-time.
- The public transportation infrastructure was optimized by automating dynamic bus dispatch processes through advanced **computer vision** techniques and **deep learning** algorithms.
- **Technologies used:** Python, PyTorch, CSRNet, Streamlit, Computer Vision, Machine Learning

RVC TTS Studio

Github - Live Application

- An end-to-end synthetic speech generation and voice conversion application was developed by integrating **Retrieval-based Voice Conversion (RVC)** and **Text-to-Speech (TTS)** models.
- An interactive web interface based on **Python** was designed to optimise model inference processes and improve the user experience.
- **Technologies Used:** Python, Streamlit, edge TTS, RVC, Audio Processing

Technical Competencies

Tools and Technologies: Python, C++ , SQL, Scikit-learn, Pandas, NumPy, Matplotlib, MS Office (Excel, Word), Git/GitHub, FastAPI, Streamlit, Vercel, Render

Artificial Intelligence and Methodologies: LLM, Supervised Learning, Predictive Modeling, EDA, Hyperparameter Tuning

Certificates

DataCamp: Intermediate SQL | **Kaggle:** Intermediate Machine Learning **AWS:** Machine Learning Foundations | **Google Skills:** Introduction to AI Agents