Kayra Kalkan

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Address: Istanbul, Turkey | **Date of Birth:** 27/07/2004 | **Nationality:** Turkish

ABOUT ME

Fourth year Statistics student at Marmara University with hands on experience in data science, machine learning, and AI driven solutions. Currently on Erasmus+ in Budapest, I have built production ready AI applications, developed end to end ML pipelines, and created full stack web solutions. Experienced in processing large scale datasets, NLP, and automation. I thrive in multicultural environments through international collaborations and voluntary projects.

EDUCATION

Marmara University | Bachelor of Statistics | Sep 2022 – Present | Istanbul, Turkey
Key Courses: Artificial Intelligence, Data Science, Machine Learning with Python, R Programming, Statistical Modeling

Erasmus+ Exchange Program | Sep 2025 – Present | Budapest, Hungary

WORK EXPERIENCE

AI DEVELOPER – MARUNGPT PROJECT | Jan 2024 – Present | Istanbul, Turkey

- Developed AI powered chatbot serving hundreds of students using Python, NLP, and Elasticsearch for semantic search

- Integrated OpenAI API generating contextually accurate responses, improving information access by 60%

- Built production ready system managing information retrieval workflows and handling real user traffic

DATA SCIENTIST INTERN – COCRM | Sep 2024 – Nov 2024 | Istanbul, Turkey

- Conducted data mining on 25,000+ company records using Python, Pandas, and NumPy to extract business intelligence

- Built automated web scraping pipeline with proxy rotation and request throttling for reliable large scale data collection

- Generated performance metrics reports and actionable insights for stakeholders

VR GAME DEVELOPER – METARIOM SOFT | May 2024 – Nov 2024 | Istanbul, Turkey (Hybrid)

- Developed immersive VR experiences using Unreal Engine for international game development company

- Collaborated with multicultural team across different time zones, demonstrating strong remote work and self management skills

KEY PROJECTS

Tennis Match Prediction ML System | Aug 2025

- Built end to end ML pipeline achieving 72.9% accuracy using XGBoost and feature engineering (Elo ratings, surface stats)

- Technologies: Python, Pandas, Scikit learn, XGBoost

AI Based Fine Tuning Song Lyrics Translation | Apr 2024

- Fine tuned language models for contextually accurate song lyrics translation preserving emotional meaning and cultural nuances

- Created training datasets from human translated lyrics pairs and built search interface for AI generated translations

- Technologies: Python, Machine Learning, NLP, Model Fine tuning

AI Based Flights & Vacation Tracker | 2025

- Built MCP server AI agent automating optimal meeting point discovery for travelers from different cities

- Scrapes flight platforms to find cost effective common destinations and generates personalized vacation itineraries

- Technologies: Python, Playwright, OpenAI API, MCP Server, Pandas, SQLite

LANGUAGES

Turkish: Native | **English:** B2 (Upper Intermediate) – ESC project interviews passed, daily communication in English with international teams

TECHNICAL SKILLS

Programming: Python, JavaScript, R, C#, SQL
Data Science & ML: Pandas, NumPy, Scikit learn, XGBoost, TensorFlow, Statistical Analysis, Feature Engineering
Web Development: Angular 19, Flask, ASP.NET Core 9, Entity Framework, REST APIs
Databases: PostgreSQL, MySQL, SQLite, Elasticsearch
AI & NLP: OpenAI API, Natural Language Processing
Tools: Playwright, Docker, Git, Power BI, Tableau, Web Scraping

VOLUNTEERING

ESC Volunteer – BAGázs | Sep 2025 – Present | Budapest, Hungary
European Solidarity Corps program developing cross cultural communication and collaboration skills in multicultural settings

ESN Marmara Volunteer | 2024 – Present | Istanbul, Turkey
Organizing events for exchange students, coordinating logistics, and mentoring incoming international students