

Ege Kaan Ozalp

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EDUCATION

MSc Data Science

September 2026 – September 2027

The University of Edinburgh, United Kingdom

Machine Learning · Deep Learning · Natural Language Processing · MLOps · LLMOps · GPU Architecture · CUDA
Multimodal Systems · Explainability & Interpretability · Deep Generative Modeling · Geometric Learning

BSc Industrial Engineering (Double Major)

August 2020 – June 2025

Sabanci University, Turkey

Operations Research · Linear Programming · Integer Programming · Simulation · Markov Chains · Statistics ·
Dynamic Programming · Data Mining · Quality Control and Planning · Information Systems · AI in Marketing

- GPA: 3.59 / 4.00

BSc Computer Science and Engineering

August 2020 – June 2024

Sabanci University, Turkey

Data Science · Machine Learning · Deep Learning · NLP · Database Systems · Software Engineering · Operating
Systems · Computer Architectures · Cryptography · App Development · Web Development · Computer Networks

- GPA: 3.52 / 4.00
- Awarded a 50% merit-based tuition scholarship for five years based on national university entrance exam performance.
- Honors: 5 terms of High Honor Certificate for finishing the terms with a GPA higher than 3.5 and 3 terms of Honor Certificate for finishing the terms with a GPA higher than 3

TECHNICAL SKILLS

Programming	Python (Advanced), C/C++ (Advanced), SQL (Intermediate), MIPS Assembly (Intermediate), C# (Beginner), Java (Beginner), HTML/CSS (Beginner)
ML / AI	Pandas, NumPy, Plotly, Scikit-Learn, XGBoost, LightGBM, PyTorch, Optuna, MLFlow
LLM / GenAI	LangChain, LangFuse, DeepEval, DSPy, Word Embeddings, Vector Databases, RAG, Agentic AI, Multi-Agent Systems, LLM-as-a-Judge
Data / MLOps	Git, Docker, S3, RabbitMQ, Qdrant, FAISS, FastAPI

EXPERIENCE

Junior Data Scientist

August 2025 – May 2026

ICRON Planning and Optimization Solutions, Full-Time

- Applied machine learning, deep learning, natural language processing, reinforcement learning and multi-agent orchestration techniques for the following projects: ICRON Multi-Agent LLM Service and Bid Price Prediction for Turkish Airlines.

Junior Data Scientist

November 2024 – August 2025

Turkish Airlines, Part-Time

- Developed multivariate time-series forecasting models using machine learning and deep learning techniques and utilised natural language processing algorithms across different projects including Customer Lifetime Value (CLV) Prediction, Prediction of Overseas Operational Expenses and Text Classification for Classifying Similar Ideas.

Information Technology Intern

July 2024 – November 2024

L'Oréal Turkey, Full-Time

- Created a program that converts the complaints of the customers from speech to text and automatically classifies them using natural language processing algorithms including speech recognition, sentence-transformers, and cosine similarity.

Machine Learning Engineer Intern

August 2023 – December 2023

Kariyer.Net, Full-Time

- Developed a system that automatically identifies and extracts soft skills and hard skills from both the job postings and the CVs using natural language processing models.

Information Technology Intern

March 2023 – June 2023

Adel Kalemcilik, Part-Time

- Managed the data entry of the company using SAP Logon.

PROJECTS

Bid Price Prediction for Turkish Airlines Cargo

February 2026 – April 2026

ICRON Planning and Optimization Solutions

- Developed a DQN-based reinforcement learning model, that learns pricing decisions from operational feedback, by designing the environment, action space, and reward function using Stable-Baselines3.

ICRON Multi-Agent LLM Service

September 2025 – February 2026

ICRON Planning and Optimization Solutions

- Developed and deployed a forecasting explainer AI agent that interprets the outputs of the multivariate time-series forecasting models by decomposing the forecast into trend, seasonality, and residuals, identifying changepoints, utilising dynamic time warping for finding the SKUs with similar temporal patterns and applying a wide range of statistical analyses to generate natural language explanations to user questions in Python using LangChain and RabbitMQ.
- Implemented the prompt optimization and LLM evaluation modules using DSPy, DeepEval and LangFuse.

Customer Lifetime Value Forecasting

November 2024 – August 2025

Turkish Airlines Technology

- Developed multiple scalable CLV forecasting models for more than 30 million customers over 6-, 12-, 24-, and 36-month horizons using tree-based ensemble learning models for regression and sliding window based feature engineering (Recency-Frequency-Monetary features) in Python.
- Deployed the models with robust MAEs and MAPEs – e.g., the 6-month model deviated less than 10% of the actual customer lifetime value for 85% of the customers in the test set.

Classification of Customer Complaints

October 2024 – November 2024

L'Oréal Turkey

- Developed a Python program that transcribes customer complaint voice recordings and classifies them automatically using NLP techniques, including speech recognition, SBERT sentence transformers, and cosine similarity.

Polling Unit Optimization for Local Elections

October 2023 – May 2024

Sabancı University

- Created a mixed-integer optimization model that accurately finds the user-defined number of neighbourhoods in each city of any country such that analysing solely the results of polls conducted in these selected neighbourhoods would provide a highly accurate overview for the outcomes of the future elections in this city.

Skill Extraction and Recommendation System

August 2023 – December 2023

Kariyer.Net

- Created a system that automatically identifies and extracts soft skills and hard skills from both the job postings and the CVs by creating a custom NER model and a few-shot NER model using a Large Language Model, training an SVM classifier, topic modelling, finding n-grams, creating word embeddings, calculating cosine similarities, and fuzzy matching.

CERTIFICATES

Intermediate Git

September 2025

DataCamp

Building Conversational AI Applications

December 2023

NVIDIA Deep Learning Institute

Fundamentals of Deep Learning

December 2023

NVIDIA Deep Learning Institute

Introduction to Data Science in Python

August 2023

University of Michigan

Advanced Consultancy Training Certificate

October 2022

Bogazici University

- Qualified for the case study that was conducted by the company KPMG and selected as the 3rd best group to present the case solution with the team that I was attended to.

EXTRACURRICULAR ACTIVITIES

Founding Board Member

November 2022 – September 2024

kAi Sabancı, Sabancı University

- Held regular meetings with NVIDIA, which sponsored the club.
- Managed organising the workshops and selecting and implementing the AI-related term projects.