

Kerem Oğuz

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Education

Bogazici University

Sept 2023 – May 2027

Bachelor's Degree, Computer Engineering

Minor Degree, Business Administration

- GPA: 3.78/4.0
- **Coursework:** Object Oriented Programming (**Java**), Algorithms and Data Structures, Discrete Computational Systems, Systems Programming (**Docker, Unix, C/C++**)

Experience

Student Researcher

Istanbul, Türkiye

Artificial Learning Lab, Boğaziçi University

June 2025 – Present

- Conducting research under the supervision of **Assoc. Prof. İnci M. Baytaş** on applying deep learning methods to healthcare data.
- Implementing and comparing **Variational Autoencoders (VAE)**, **Recurrent Neural Networks (RNN)**, **Long Short-Term Memory (LSTM)**, and **Transformer** architectures.
- Developing models to predict future timestamps and progression patterns in patients with **Mild Cognitive Impairment (MCI)**.
- Performing data preprocessing, model evaluation, and hyperparameter tuning to improve predictive accuracy.

AI & Data Engineering Intern

Istanbul, Türkiye

Turkish Technology

July 2025 – Aug 2025

- Designed and optimized data workflows using **Oracle DB (SQL)** and **Python** for efficient data retrieval, preprocessing, and analysis.
- Developed interactive data applications with **Streamlit** and performed exploratory data analysis using **Pandas**.
- Built and deployed a multi-agent system leveraging **Model Context Protocol (MCP)** and **Large Language Models (LLMs)** for advanced automation tasks.
- Created and integrated a conversational **chatbot** using **Flask API, MCP, AzureOPENAI**, enabling seamless interaction between backend services and AI models.

Software Engineer Intern

Remote

ISSD Informatics Electronics Corporation

July 2023 – Sep 2023

- Developed proficiency in algorithms and data structures using **Python** and **C++** programming languages
- Solved real-world problems with approximately **80% accuracy** using machine learning techniques, including **linear regression** and **polynomial regression**.
- Implemented machine learning models from scratch and also utilized popular libraries such as **Scikit-learn (Python)**, **Matplotlib (Python)**, and **Pandas (Python)** for data analysis and modeling.

Leaderships and Awards

TravelX Ideathon

[Github link](#) 

- Enhanced the **Turkish Airlines'** website with carbon-offsetting features **using NFT** and developed an **NFT marketplace prototype** with **JavaScript, HTML, and CSS**.
- Qualified for the final and selected for a bootcamp on **Gen AI, NFTs, and Metaverse** technologies.

National University Entrance Exam 97th Place

2022

- In the university entrance exam, I ranked within the **top 100** in the **science/math** category **among 3.2+ million students** and received an **honor scholarship** from the government.

Extracurricular

Inzva Algorithm Community Member

Sep 2023 - Feb 2024

- Tried to solve various kinds of algorithmic problems **using C++, and Python** programming languages.

Kızılay Volunteer

Jan 2018 - Jan 2019

- I tried to convince people to donate blood to help people in need.