

## Education

**University of Zurich**, Zurich, Switzerland

M.Sc. in Computer Science

Sep. 2020 – Oct. 2023

Major: Data Science

Minor: Banking and Finance

GPA: 5.2/6.0

Major GPA: 5.4/6.0

**Bilkent University**, Ankara, Turkey

B.Sc. in Electrical and Electronics Engineering

Sep. 2016 – Jun. 2020

GPA: 3.03/4.0

**TED Ankara College**, Ankara, Turkey

High-School

Sep. 2012 – Jun. 2016

## Industry Experience

**Abdi Business Technologies**, Istanbul, Turkey

Artificial Intelligence Engineer

May. 2024 – Ongoing.

- **AI Candidate Analysis** Developed an end-to-end hiring process, including CV analysis based on job descriptions, candidate filtering, personalized interview questions with follow-ups, and a bot that joins interviews to assess and evaluate candidates.
- **Roleplay Chatbot** Created medical professional personas (doctors, pharmacists) to assist medical representatives in training on specific medicines, aiming to enhance sales performance. Fine-tuned the model and built a Retrieval-Augmented Generation (RAG) system. The chatbot supports both speech-to-text and text-to-text interactions to facilitate realistic training simulations.

**Union of European Football Association (UEFA)**, Remote

Data Science Intern

Oct. 2023 – Jan. 2024

- **Intelligence Center:** Led online data integration for strategic football research, analyzing player workload with statistical and machine learning tools.
- **Analysis Department:** Implemented metrics using UEFA tracking and event data, covering ball location and dynamics, press, progression, and pass classifications.

**Kardinero Medical Systems**, Ankara, Turkey

Embedded Systems Intern

Jun. 2019 – Jul. 2019

**FNSS Defence Systems**, Ankara, Turkey

Embedded Systems Intern

Jun. 2018 – Jul. 2018

## Research Experience

**ETH Zurich - Social Networks Lab**, Zurich, Switzerland

Research Assistant

Jun. 2022 – Jul. 2023

Supervisor: Prof. Dr. Ulrik Brandes

- Utilized spatio-temporal tracking data from UEFA and FIFA to develop shape graphs and the instantaneous inference of tactical positions in soccer.

## Teaching Experience

**ETH Zurich - Soccer Analytics**, Zurich, Switzerland

Teaching Assistant

Spring 2023

Lecturer: Prof. Dr. Ulrik Brandes

## Significant Projects

**An Open-Source Implementation of FIFA's Enhanced Football Intelligence**, University of Zurich, ETH Zurich

Master's Thesis

2023

Supervisor: Prof. Dr. Claudio J. Tessone, Co-Supervisor: Prof. Dr. Ulrik Brandes

- Were the concepts in the Enhanced Football Intelligence document sufficiently detailed to allow for reproduction of FIFA World Cup 2022 match reports?

**UniFi: A Unified Framework for Portfolio Management**, University of Zurich

Master's Research Project

2022

Supervisor: Prof. Dr. Manuel Günther

- Developed a framework to compare portfolio allocation methods, enabling users to import data, apply feature engineering, choose between traditional or reinforcement learning models, and back-test methodologies using preferred metrics.

**BeeSMART**, *Bilkent University*

*Bachelors Graduation Project*

2020

*Supervisor: Prof. Dr. Ezhan Karasan*

- Created a smart hive monitoring project featuring GSM, GPS, and various sensors, using Edge Learning to predict hive conditions from bee sounds and enabling IoT communication over MQTT for real-time data access on Android and Web platforms.

**Skills**

**Software:** Python, SQL, R, MATLAB, C, C++, Java, VHDL

**Technologies:** NumPy, Pandas, Scikit-Learn, PyTorch, TensorFlow, Keras, LangChain, FastAPI, Flask, SQLAlchemy

**Development Tools:** VS Code, Jupyter Notebook, XCode

**Collaboration & Project Management Tools:** Git, Jira, Confluence

**Cloud Platforms:** Microsoft Azure, Dataiku, Google Colab

**Languages**

**English**

*Level: Advanced*

**German**

*Level: A2*

**Turkish**

*Level: Native*

**Examinations**

**TOEFL iBT**

*Grade: 97/120*

**GRE General Test**

*Quantitative: Grade 168/170*

**Honors & Rewards**

**Roleplay Chatbot**, *Istanbul, Turkey*

*Abdi Business Technologies*

2024

- Awarded Best AI Virtual Agents & Bots at the [Future of AI & Cloud Summit](#) by CXO Media.
- Received the Bronze Category Health Technologies Award from [Yapay Zeka Fabrikasi](#), [Türkiye İş Bankası](#).

**Licenses & Certifications**

- [Python For Finance: Use Data Science for Financial Analysis](#)

**Extracurricular**

- Certificate of Completion - Churchill House School of English Language Summer School
- Certificate of Completion - Loyola Marymount University English Language Summer School
- Former Licensed Kickboxer
- Former Licensed Chess Player