

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 operating in a speech-to-speech format.
- **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 operates in a speech-to-speech format for 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 to develop automatic formation detection, role assignment algorithms, and clustering of passing patterns through spatial networks.

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
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.

2020

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
German
Turkish

Level: Advanced
Level: A2
Level: Native

Examinations

TOEFL iBT

GRE General Test

Grade: 97/120

Quantitative: Grade 168/170

Honors & Rewards

Roleplay Chatbot, *Istanbul, Turkey*
Abdi Business Technologies
◦ 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](#).

2024

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