EFE TÜZÜN

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EDUCATION

Sabancı University   Istanbul, Turkey
Bachelor of Science - Computer Science and Engineering; Current GPA: 4.00   Sep 2020 - July 2024

- **Honors And Awards:** Dean's List - High Honor for 6 consecutive semesters; Scholarship including 100% tuition as well as dormitory stay; 1st in Computer Science and Engineering

Cağaloğlu Anatolian High School   Istanbul, Turkey
Cumulative GPA: 95.52/100   Sep 2018 - June 2020

- **Honors And Awards:** Placed 941st in the YKS Higher Education Exam out of 2.4 million high school students in 2020

EXPERIENCE

Mars Athletic   Istanbul, Turkey
Data Scientist (Part-time)   Oct 2023 - Present

- Working on a project to discover how gym habits are formed in customers as part of the Graduation Project
- Enhancing customer retention rate by establishing a causal relationship with multiple variables that can be intervened

Sabanci University   Istanbul, Turkey
Learning Assistant for CS 412 - Machine Learning   Oct 2023 - Jan 2024

- Assisting over 150 junior students by conducting weekly office hours to answer questions about course material and homeworks
- Conducting recitation hours to deepen the understanding of various concepts taught during lectures

Radboud University Nijmegen   Nijmegen, Netherlands
Research Assistant   Jul 2023 - Sep 2023

- Conducted research in the field of Security of AI under the supervision of Dr. Stjepan Picek
- Collaborated with a PhD student on a project aimed at improving the adversarial robustness of neural networks with a novel defense method
- Performed additional experiments for the verification of the validity of the training method

Mars Athletic   Istanbul, Turkey
Data Scientist (Part-time)   Jul 2022 - Jun 2023

- Constructed the User Segmentation Model with the K-Means Clustering method to separate customers with different behavioral patterns for the effective preparation of marketing campaigns
- Revised the Customer Churn Model to more efficiently detect customers that are likely to cancel subscriptions with the aim of increasing retention rates
- Enriched customer and company data through public sources using various Python libraries and Internet resources

PROJECTS

Analysis of Istanbul's Road Network   Tuzla, Istanbul
Network Scientist   Feb 2023 - Jun 2023

- Collaborated with 3 other people to analyze Istanbul's road networks using network science approaches
- Designed a network of roads using Spearman correlation metric, using public data made available by İBB
- Analyzed the diffusion of congestion by simulating situations with various parameters and comparing it to real-life scenarios

FFP Tracker   Tuzla, Istanbul
Full-stack Developer   Oct 2022 - Jan 2023

- Developed a financial tracker website using the MERN stack for the TFF
- Coordinated a team of 4 people, oversaw the distribution of the workload to team members
- Programmed both on the back-end and front-end of the application

Political Tweet and Bot Detection — Tuzla, Istanbul
Machine Learning Engineer — Oct 2022 - Jan 2023

- Collaborated with 3 other people to tackle the issues of proliferation of political content and prevalence of bot accounts in Turkish twitter
- Developed a political tweet detecting machine learning algorithm and a bot detecting machine learning algorithm
- Oversaw the development of the Bot detection algorithm
- Achieved one of the lowest MSE for Political Tweet Detection

Ace Application — Tuzla, Istanbul
Mobile Application Developer — Feb 2022 - Jun 2022

- Collaborated with 3 other people to create a mobile application that is a combination of Instagram and Twitter for Android phones using Flutter
- Designed the back-end of the project, interacting with Firebase as the Database
- Programmed on both the back-end and front-end of the application

SKILLS

Languages: Turkish (Native), English (C1), German (C1)

Programming Languages: Python, C, C++, C#, JavaScript, SQL, Dart

Tools and Frameworks: Scikit-Learn, NumPy, Pandas, NetworkX, Node.js, React, Flutter, MS Office, Gephi, PyTorch

EXTRACURRICULAR ACTIVITIES

Sabancı ACM Computer Club (SUACM) — Istanbul, Turkey
Board Member — Sep 2021 - Jun 2022

- Coordinated the information exchange between Growth and Social Media Departments as one of the three Vice Presidents
- Met with potential sponsors to increase funding to the club

Sabancı ACM Computer Club (SUACM) — Istanbul, Turkey
Seminar Department Coordinator — Sep 2020 - Aug 2021

- Arranged seminars with school alumni and other companies who shared their experiences in the various fields of Computer Sciences
- Managed a team of 5 people to mail potential alumni to establish preliminary connections

Alpena High School — Alpena, MI
Exchange Student — Aug 2017 - Jul 2018

- Exchange student for 10 months with YFU Cultural Exchange Program as a senior in the US
- Guard in the varsity basketball team
- Scored 1390 on the SAT

VOLUNTEER WORK

Sabancı University Community Involvement Projects (CIP) — Istanbul, Turkey
Audiobook Narrator — Sep 2020 - Jan 2021

- Recorded three audiobooks for visually impaired children to be used in an application

LICENSES AND CERTIFICATIONS

TOEFL iBT by ETS — Istanbul, Turkey
Score: 115 — Oct 2023

- **Reading:** 29/30
- **Listening:** 29/30
- **Speaking:** 30/30
- **Writing:** 27/30

Deutsches Sprachdiplom Stufe II (DSD-II) by KMK — Istanbul, Turkey
Score: C1 — Dec 2019

- **Reading:** C1
- **Listening:** C1
- **Speaking:** C1
- **Writing:** C1

INTERESTS

Hiking, F1, EDM, video games, puzzles, problem-solving, visiting historic places