HASAN FIRAT YILMAZ

Tuzla/İstanbul 34956
@hasanfiratyilmaz in LinkedIn
@HFyilmaz in GitHub
+90 542 833 57 31 • hyilmaz@sabanciuniv.edu

EDUCATION

SABANCI UNIVERSITY Expected June 2025 • Istanbul, Turkey
B.S Major in Computer Science and Engineering, Minor in Business Analytics
CGPA: 3.90/4.00
Honors/Awards: -Ranked top 0.05% among 2.4 million students in National University Entrance Exam
-Six terms High Honor Certificate (GPA higher than 3.5)
-Sakip Sabanci Merit Scholarship (100% Scholarship)

Course Highlights: Machine Learning, Distributed Systems, Mobile Application Development, Algorithms.

UPPSALA UNIVERSITY January 2024 – June 2024 ● Sweden
Erasmus Undergraduate Exchange Program
Course Highlights: Computer Graphics, Software Engineering, Security & Privacy, Internet of Things

EXPERIENCE

Pragma Software: June 2024 – November 2024
- Leveraged **ASP.NET** and **MVC framework** using **C#** to contribute to various projects, focusing on the design and implementation of both the frontend and backend for Jolly Joker's new webpage.
- Utilized **Git** effectively and regularly to manage code versions and enhance team collaboration on projects.

Finartz: Jan 2023 – Feb 2023
- Developed a project website for a fintech company during my internship at Finartz, leveraging state-of-the-art AI tools.

PROJECTS

Specialized Large Language Model for Battery Literature (RAG): Oct 2024 – Present
- Developing a **retrieval-based large language model** as part of the graduation project using the LangChain framework, Llama 3.1 LLM, Sentence-BERT embeddings, and the Chroma vector database.
- Implemented **search functionality** across documents using the Elasticsearch engine.
- The model assists company employees by providing answers derived from battery-related literature via a **Django-based webpage interface**.

Predictive Modeling for Homework Scores using Machine Learning: Oct 2023 – Jan 2024
- Developed a **machine learning** model in **Python**, leveraging PyTorch and TensorFlow libraries.
- The model forecasts homework scores of students based on their ChatGPT interactions.

Client-Server Message Networking Application: Oct 2023 – Jan 2024

- Developed a message networking application using **C#**, implementing Client and Server modules as parts of a computer networking course.

Building A Fitness Tracker Mobile Application: Mar 2023 – June 2023

- Developed a fitness-tracking app using **Java** and **Android Studio**, integrating **MongoDB** to securely store user workout logs.

Quantifying Political Division and Sentiment Analysis in Turkey: Mar 2023 – June 2023

- Conducted **sentiment analysis** using **Python** and machine learning to quantify political content consumption, evaluate negativity in YouTube comments, and analyze whether it targeted specific politicians or was evenly distributed.

Analysis of Suicide Rates and Living Conditions: Mar 2023 – June 2023

- Utilized **MySQL**, **Python**, and **Excel** for comprehensive data analysis, aiming to uncover insights into underlying factors associated with higher suicide rates.

Designing A Mobile Application: Oct 2022 – Jan 2023

- Designed a mobile application by using **Figma** as part of the Interface Design course, with a focus on user interface design.

SKILLS

Language: Turkish (Native), English (Professional Proficiency)
Computer: Docker, ASP.NET, C#, React, React Native, Stable Diffusion, Elasticsearch, C++, Java, Python, MySQL, Android Studio, MongoDB, Microsoft Office Applications (Excel, Word, PowerPoint), HTML/CSS, JavaScript, Figma, Git,

ACTIVITIES

Co-President, Sabanci University Computer Science Society {CSS} Jan 2023 – Jan 2024
Board Member, Association for Computing Machinery, Sabanci University Oct 2022 – Jan 2023