

Yusuf Efdal Yılmaz

+90 539-944-5819 | efdal.yilmaz@sabanciuniv.edu | [linkedin.com/in/yusuf-efdal-yilmaz](https://www.linkedin.com/in/yusuf-efdal-yilmaz) | github.com/beystef

EDUCATION

Sabanci University (GPA: 3.84)

Istanbul, Turkey

BSc in Data Science and Analytics, Double Major with Computer Science, Minor in Finance Sep. 2023 – June 2027

EXPERIENCE

Co-Founder / Developer

Dec. 2025 – Present

TTR Digital | Python, FastAPI, SQL, Docker

Istanbul, Turkey

- Developed a data-driven modular management systems for industrial clients, **Dockerized** on-premise solutions
- Built a costing model and profitability solutions using **Pandas, SQL** for project evaluations
- Implemented scenario simulation solutions to analyse alternative work and shift plans

Undergraduate Student Researcher

Aug. 2025 – Present

Michigan Technological University | ParaView, Python, Numpy, HDF5, XMDF

Houghton, MI

- Working in a project about computationally modeling Relativistic Image Doubling (RID) events
- Developed simulation models using numeric and algebraic calculations with **Numpy, Python, Sympy, Sklearn**.
- Simulated event-horizon and image trajectories using **h5py, HDF5, XMDF, Paraview**.

Data Scientist (Part-time)

July 2024 – Feb. 2025

Mars Athletic Club | SQL, Python, Sklearn, Pandas, PostgreSQL

Istanbul, Turkey

- Built customer predictive ML models using **Sklearn** on multi-source time series data processed with **Pandas**
- Contributed to strategy enhancements with analytical approaches to improve customer retention rates
- Analysed large-scale operational datasets in **PostgreSQL** using **Python** and **SQL**

Undergraduate Student Researcher

Nov. 2023 – April 2025

Sabanci University | Python, Pandas, Numpy, Huggingface, Sklearn

Istanbul, Turkey

- Worked on a project analysing LLM capabilities in inferring governments' international policy tendencies and investigating political bias and thinktank inference accuracy in general purpose LLMs
- Webscraped desired data and prepared datasets using **Pandas, Numpy**
- Evaluated multiple **Huggingface** LLMs to assess contribution of locally deployable LLMs to thinktank analysis

Independent Research Project

April 2021 – May. 2022

Mind Plateau | Python, Flask, NodeJS, NOSQL, Sklearn, Pandas

Istanbul, Turkey

- Developed a mobile education platform using **Flask & NodeJS & MongoDB** to facilitate digital mind games education, and to create feasible environment for online mind game competitions
- Conducted a research to analyse the correlation between mind game solving skills and IQ test scores using **Sklearn**
- During the Regeneron ISEF'2022, Mind Plateau was granted the **World 4th Award**

AWARDS & HONOURS

World 4th Grand Award : Regeneron International Science and Engineering Fair (ISEF) 2022, Systems Software

Silver & Bronze Medal : Istanbul Science Olympiads, **Informatics** (Season 2020 & 2021)

Finalist: TÜBİTAK National Science Olympiads, Informatics (Seasons 2022 & 2023)

2nd Place (Turkey) : TÜBİTAK 52. Inter-High School Project Competition, Software Category

1st Place (Turkey) : Cryptomath Turkey Inter-High School Cryptology Competition (Seasons 4 & 5)

TÜBİTAK 2205 Scholar : Undergraduate Merit Scholarship

TÜBİTAK 2248 Mentee: Academic & Industry Mentorship Program (2022–2024)

High Honor Student: Dean's list, Sabanci University (2023, 2024, and 2025)

EXTRACURRICULAR

Mentor: Organizing tech-workshops for disadvantaged individuals, Aksa Solidarity Foundation (Nov. 2023 – May. 2024)

Instructor: Astronomy volunteer in Ayvalık Creative Technologies Workshop (May. 2025 – Present)

Student Clubs: President in University Astronomy Club. (2024-2025) Head of Finance in University SIAM Chapter (2024-2025). Board member in University Bridge Club (2024-Present)

TECHNICAL SKILLS

Python, C++, SQL, Node.js, Flask, FastAPI, Git, Pandas, NumPy, Excel, Time Series, Sklearn, PyTorch, HuggingFace