

# Efe Sahin

<https://www.efesasa.com>

**Email:** efesasa@gmail.com

**Mobile:** +90-533-301-7553

I have over 1 year of professional work experience as an AI engineer. My experiences have included automating various workloads in my professional life, implementing personal projects, and volunteering in research groups. My long-term goal is to develop into an R&D lead with a specialty in Generative AI.

## Education

**The Pennsylvania State University**  
*Bachelor's in Computer Science; GPA: 3.40*

University Park, PA  
Aug 2020 - May 2023

## Experience

**Ideogen AG**  
*Junior AI Engineer*

Sariyer, IST  
Oct 2024 - Present

Advising with 5 projects and educating in AI concepts in business applications in Switzerland and Türkiye by communicating with clinical, regulatory and sales teams of sizes > 15. Kicked off Github Organization page and developed a multi-threaded intranet app with user authentication + dockerized + deployed on AWS EC2. Used tools: langchain, groq api, llama-index and shared development demos with the team. Increased company outreach in the first two months of the initiative by meeting with 9 different digital agencies.

**Columbia Data Analytics**  
*Junior Programmer*

Manhattan, NY  
Aug 2023 - Apr 2024

Engaged with 6-7 client requests to deliver patient attrition tables using PySpark and Databricks weekly. Reorganized the pipeline code for tracking past and future request outputs, allowing new parameters to be entered more conveniently and results to be delivered to the sales lead.

## Volunteer

**Sabancı University**  
*Research Volunteer*

Remote  
Jan 2025 - Present

Researching on integrating a neuroscience concept (SSEVP) for computer vision to improve explainability of a model. Using Fast-Fourier-Transform to reveal importance of the feature maps produced by the ResNet50 model and to do pruning. Advised by Professor Erchan Aptoula and Professor Gulsen Taskin.

**Istanbul Technical University**  
*Research Volunteer*

Sariyer, IST  
Jul 2024 - Aug 2024

Researched on an earthquake analysis project advised by Professor Gulsen Taskin. Using private owned computer vision indoors of damaged buildings dataset + synthetic natural language dataset to fine-tune the LLaVA using ITU's HPC clusters. Consequently provided genAI insights to a new consortium for XAI at the time of size >7 professors and learned the procedure.

**Bogazici University**  
*Technical Assistant Volunteer*

Remote  
Aug 2023 - May 2024

For two semesters in order, administered 2 classes of size > 200 with Professor Onur Baser and resolved complaints. Automated midterms and finals exam sheet preparation using python. Created bar plots anonymously disclosing class performances for every test and gathered student feedback for the course.

## Projects <https://github.com/Efesasa0>

**Ariel Data Challenge:** Deep convolution pipeline that process UCL Ariel dataset to predict exo-planet spectrums.

**Real-time EEG Receiver:** Script to record streaming brainwave data from the MUSE headband using OSC.

**Real-time Translation:** Faster-whisper multi-threaded app that translates to English and speaks back in real-time.

**Smooth Life:** Paper implementation of the smooth life paper with GUI to control the simulation and deployed.

## Skills

Deep Learning frameworks, Big Data Analytics, High Performance Computing

**Hobbies:** Drums