

Ali Firat Celik

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Sophomore undergraduate student in Computer Engineering at Middle East Technical University (METU). Passionate about automation, open-source contributions, and building useful tools.

Education

- **Middle East Technical University (METU)** Ankara, Turkey
Bachelor of Science in Computer Engineering
Ranked 566th out of 3 million participants in Türkiye's National University Entrance Exam (YKS).
2022 – 2027

Personal Projects

- **METU SKSDB Reservation System Automation**
Developed an automation tool for reserving gym slots on METU's SKSDB system using **Python** and the **Selenium** library. Integrated audio-to-text models to solve Google's CAPTCHA during development. Since CAPTCHA only appeared once per session on the login page, the automation did not get flagged as a bot.
- **METU Registration System Automation**
Built a tool to automate METU's course registration system using **Python** and **Selenium**. Implemented **Tesseract OCR** for solving CAPTCHAs and applied **OpenCV** to preprocess noisy text images.
- **trolls2.xyz**
Co-developed a static website used weekly by 2,000–3,000 engineering students to access solutions for Pearson homework in PHYS 105 and 106. Built with **HTML**, **CSS**, and **JavaScript**. Hosted on **Netlify** with continuous deployment from GitHub. Gained valuable experience in frontend development and version control.

Open-Source Contributions

- [Authored GitHub Issues](#)
[Submitted Pull Requests to public repositories](#)

Work Experience

- **METU AIRLAB, Informatics Institute, METU** Ankara, Turkey
Undergraduate Research Assistant May 2025 – Present
Working under Assoc. Prof. Dr. Erdem Akagündüz on a TÜBİTAK TEYDEB-funded project involving **Deep Learning** for **vision and graphics**. The project focuses on developing a prototype system that generates interactive graphics in real-time using live camera input. Gaining hands-on experience in machine learning, computer vision, and real-time systems.

Certifications

- **PY0101EN: Python Basics for Data Science**
Completed the Python Basics for Data Science course offered by IBM on edX. [View certificate.](#)

Languages

- **Turkish:** Native proficiency
- **English:** Fluent proficiency