

Ali Murat Gültekin

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EDUCATION

Sabancı University

Bachelor of Engineering
Major in Computer Science

Istanbul, Turkey
Sep 2022 – Expected May 2026

TED Ankara College High School

Full Scholarship; awarded based on national exam performance, ranking 1700th.

Ankara, Turkey
Sep 2018- May 2022

PROFESSIONAL EXPERIENCE

Independent AI & Digital Solutions Venture

AI & Software Automation Engineer (Self-Employed)

Istanbul, Turkey
May 2025 – Present

- Designed and deployed custom AI Agents using n8n to automate business tasks and data workflows for startups and small to medium enterprises.
- Developed and hosted responsive websites for diverse clients using HTML, Python and MySQL to increase their digital presence.
- Built personalized chatbots using LLMs as the “brain” to provide automated, accurate responses based on specific company data.

Internship, University of Groningen

Cybersecurity and Machine Learning Intern

Groningen, Netherlands
Jun 2025 – Aug 2025

- Built an intrusion detection pipeline using Random Forest and XGBoost on real-world cybersecurity data
- Developed a Docker-based environment and wrote a guideline to support future master’s students in IDS research

Internship, Technical University of Munich

Observer Engineering Intern

Munich, Germany
Jan 2024 – Feb 2024

- Participated in team meetings and discussions to gain insights into project workflows

Internship, Inovako

Deep Learning & Computer Vision Intern

Vitoria-Gasteiz, Spain
Jul 2024 – Oct 2024

- Developed a machine learning module for computer vision tasks
- Deploying a web application to integrate the machine learning module

Assistant Project Manager, New York Business Excellence

Promoted from Intern

New York, USA
Jul 2024 – Sep 2024

- Managing multiple projects, ensuring timely delivery and goal satisfaction
- Giving strategic support to multiple teams

Internship, New York Business Excellence

AI Project Team Leader

New York, USA
Jun 2024 – Jul 2024

- Worked in a team of 4 as project leader and developed artificial intelligence project
- Delegated efficient workflow and reported the project in satisfaction of senior manager

RESEARCH EXPERIENCE & PUBLICATIONS

Research Assistant, University of Michigan

Cybersecurity and Machine Learning

Michigan, USA
Aug 2025 – Present

- Co-author of the paper “Revisiting Early Detection of Violating Mobile Apps: Dataset Validation and Feature Enrichment via VirusTotal and Quark Engine” (under revision at *Computers & Security*).
- Designed and implemented end-to-end ML pipelines for Android malware detection using XGBoost.

- Contributed to experiments on label reliability and model robustness.

ACTIVITIES AND LEADERSHIP

Sabancı Motor Racing Club

Co-President

Istanbul, Turkey

Dec 2022 – Present

- Organized multiple karting events for more than 40 students
- Organized and advertised Formula 1 watch parties for students

EIK Student Club

Active Member

Istanbul, Turkey

Sep 2022 – Present

- Established communications with companies to organize events

PROJECTS

Lung Cancer Detection Project

Feb 2025

- Developed a computer vision module that detects lung cancer nodules using CT scans.
- Used deep learning models for the classification of the nodules.

Intrusion Detection System (IDS) with Machine Learning Project

Jul 2025

- Designed and tested a pipeline to detect network attacks using Random Forest and XGBoost
- Built a Docker-based setup and documented the process in a student-facing guideline for reproducibility.

Secure P2P Client Application Project

Jun 2025

- Added RSA-based enrollment and AES-CBC integrity-key exchange in a Tkinter GUI.
- Implemented an ECC/HMAC handshake for session-key derivation and mutual authentication.
- Created separate Message and Debug panes to log nonces, IVs, ciphertexts, and HMAC verifications

Crime and Socioeconomic Factors ML Project

May 2025

- Analyzed the impact of education and unemployment on crime using EDA, hypothesis testing, and ML models
- Used Random Forest, Logistic Regression and KNN to classify crime levels and examined feature importance

OpenSMILE ML Project

Apr 2023

- Worked with a team of 3 to develop a machine learning module using OpenSMILE
- Designed a system that can analyze which speakers are talking and what their emotional states are

Shopping Website Application Project

Dec 2024

- Designed user interface, ensuring responsive experience using XAMPP
- Developed backend data structure with reliable form using phpMyAdmin

VOLUNTEER WORK

Civic Involvement Project

Sep 2022 – Feb 2023

- City Planning

OTHER

- **Technical:** Advanced in C++, Advanced in Python, HTML/CSS, MySQL, Machine Learning, Computer Vision, Web Application, PyQt5, Django, phpMyAdmin, XAMPP, Socket Programming, Docker, Cisco Packet Tracer, Wireshark
- **Languages:** Fluent in English, Turkish; Conversational Proficiency in Spanish