

Burak Erdogan

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Professional Summary

A Computer Engineering preparatory student with award-winning project experience, including a 2nd place finish in a national TUBITAK competition and a TEKNOFEST Finalist recognition for projects in AI, Cybersecurity, and Natural Language Processing. With proven competencies in developing machine learning models and designing secure software architectures, seeking to enhance practical skills through an internship at a technology-focused company.

Education

Bahcesehir University
Computer Engineering

Istanbul, Turkiye
2025-2030

Aziz Atik Science High School (GPA: 3.9)

Samsun, Turkiye
2021-2025

- Actively participated in an Erasmus+ Student Mobility program, analyzing the use of technology in German classrooms. (Berlin, Germany - April 2024)

Projects

CardGuard | AI-Powered Cybersecurity Browser Extension

Team Captain & Researcher

- Designed and developed an award-winning browser extension to prevent online financial fraud.
- Secured the **2nd place** award in Turkey in the Software category at the TÜBİTAK Research Projects Competition (Turkey's most prestigious science and engineering fair for high school students), selected from **over 2,000 projects**.
- Achieved over **96%** classification accuracy in detecting malicious phishing sites using a **hybrid** architecture that combines **Gemini** and **k-NN** models, trained on a custom dataset of over 10,000 websites.
- Designed and implemented a secure architecture integrating **AES-256** encryption in local storage with a decentralized **Blockchain** ledger to guarantee the immutability and integrity of user data.

HEZARTECH | Target-Based Sentiment Analysis Model

Team Captain & Natural Language Processing (NLP) Developer

- Led a team in developing an advanced NLP model for Turkish sentiment analysis, achieving the distinction of **National Finalist** at TEKNOFEST 2024 by **competing as a high school team against university-level opponents**.
- Attained approximately **93%** accuracy and F1-score by fine-tuning a BERTurk model on a custom-labeled dataset of over 37,000 customer reviews collected from web and social media sources.

Eco-Metrics | Gamified Resource Conservation Project

Team Captain & Researcher

- Spearheaded the design and implementation of a gamified educational program using **Web 2.0** tools, which won the **National Incentive Award** at the TÜBİTAK Research Projects Competition, innovative approach to values education.
- Generated measurable behavioral change across the school, achieving a sustainable **36%** reduction in weekly water consumption and a **12%** reduction in electricity consumption over the project's duration.

Leadership & Volunteer Experience

HEZARFEN Defense, Aviation, and Space Technologies Camp

Organizing Team Member & Participant

- Served on the founding team of a national defense, aviation, and space technologies camp for **100+** students from Turkey's top science high schools.
- Established strategic partnerships with Turkey's leading defense industry giants, including **ROKETSAN**, **HAVELSAN** and **TUSAŞ**, to secure event sponsorships and expert-led workshops.

Aziz Atik Science High School

President of the Entrepreneurship Club & School Honor Council and Disciplinary Board Member

- Elected by peers to concurrently serve as both President of the Entrepreneurship Club and President of the School Honor Council; also acted as the student representative on the Disciplinary Board.

Skills & Interests

Skills: Artificial Intelligence (AI) | Machine Learning (ML) | Deep Learning | Natural Language Processing (NLP) | Data Science | Web Scraping | Git | Cybersecurity | Cryptography | Python | JavaScript | Flask | Project Management | Leadership | Organization

Interests: Aviation & Space Technologies | Entrepreneurship | Sustainability | Travel & Nature | Music (Baglama, Guitar, Piano) | Sports (Football & Volleyball)