Mertcan Gelbal

Istanbul, Turkey
+90 505 080 4541 gelbalmertcan@gmail.com
Linkedin.com/in/mertcangelbal github.com/Mertcan-Gelbal mertcangelbal.com
10.09.2002

I have a solid track record in Artificial Intelligence and technology, gained through diverse projects and internships. My experience includes creating advanced AI solutions, optimizing systems, and solving complex algorithmic problems. I am committed to applying my skills to develop innovative solutions and drive technological progress.

Education

2021 – 2025	**Marmara University**
	BS – Computer Engineering

Experience

06/2024 – 08/2024 **INTERTECH**
Software Development Intern
- Developed expertise in AI technologies by implementing the GPT-4 model for natural language processing in the "Egıtım Denızı" project, which enhanced financial literacy through customized content and interactive quizzes.
- Enhanced accessibility by integrating Azure Translator services for multilingual support and utilized Azure Text to Speech and Speech to Text to optimize user interaction through effective voice feedback mechanisms.
- Designed and implemented a Retrieval-Augmented Generation (RAG) architecture to deliver precise, information-driven responses, improving the overall user experience and learning outcomes.
- I contributed to the Agile development by engaging in regular Scrum meetings, refining product development strategies, and fostering collaboration within cross-functional teams.

07/2023 – 09/2023 **Quark Optical A.S**
Embedded Systems Software and Design Development Intern
- Acquired hands-on experience in developing a temperature measurement project for a space technology chip utilizing STM32.
- Strengthened skills in embedded systems analysis and design through active involvement in the Time Digital Converter project and a Wi-Fi Controlled valve project.
- Successfully developed a custom application for valve control, involving database integration for enhanced functionality.

09/2019 – 06/2020 **TNC TOSHIBA Authorized Service**
Mechatronics Technician
- Identified and resolved diverse computer issues, showcasing diagnostic skills and delivering timely solutions to clients.

Languages & IT Knowledge

Turkish (Native Language) English (Pre-Intermediate)
Python Java C Assembly MySQL TensorFlow Keras Pandas OpenCV

Volunteer Work

2023 – 2024	GDSC Marmara University Co-Lead
08-09/2023	Turkey Cyber Security Cluster

Threat Hunting Training
- Gathering and Analyzing Threat Intelligence
- Identifying Cyber Attacks and Vulnerabilities

2022 – 2023	**Turkey Engineers Community, Community Management Team** - Our community fosters social interaction among members, leading to the formation of teams that participate in software competitions.
2021 – 2022	**Marun-ACAR Technology Team, Software Team Leader** - Prepared a robot for the Autonomous UAV Mission Competition category, gaining valuable teamwork experience.
2018 – 2020	**AR-GE Community Leader** - Secured 2nd place in the Basaksehir Living Lab Competition and gained valuable experience by achieving the same ranking in an international competition held in Korea.

Project

Signature Forgery Detection using Artificial Neural Networks

The project aims to detect if a user-provided sentence is a palindrome using a stack, a specialized data structure. The sentence undergoes space removal, and the palindrome validation occurs by adding and removing characters in reverse order through the stack.

Find Palindrome Sentences Project

The project aims to detect if a user-provided sentence is a palindrome using a stack, a specialized data structure. The sentence undergoes space removal, and the palindrome validation occurs by adding and removing characters in reverse order through the stack.

Certificate

08/2024	Software Engineering Intern INTERTECH
07/2024	BÖYOYO Artificial Intelligence Bilim Akademisi
07/2024	Google Developer Students Club's Marmara University Co-Lead Google DSC Marmara University Club's
09/2023	Turkey Cyber Security Cluster Threat Hunting Turkey Cyber Security Cluster
04/2023	Artificial Intelligence Training Certificate Ecodation
10/2022	Complete Java Developer Course from Scratch Udemy
06/2022	Face and Object Recognition with Computer Vision | R-CNN, SSD, GANs Udemy
06/2022	Python | Advanced Programming from Scratch Udemy

Hobbies

Aikido (Licensed)
Swimming
Hiking