YÜCEL AYTAÇ AKGÜN

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EDUCATION

Bursa Technical University *2020 - 2025*
B.Sc. in Computer Engineering *CGPA: 3.48/4*
(Completed one year of English preparatory school)
Graduation Project: BTU-Chatbot - LangChain-based Multi-Agent RAG Chatbot

Anadolu University *2022 - 2026*
B.A. in Business Administration (Open Education) *CGPA: 3.14/4*

CAREER OBJECTIVE

To work and contribute in Data Science, Image Processing, Machine Learning, Artificial Intelligence, Robotics, and Neuroscience. My goal is to leverage technology and science to create solutions that positively impact society and the world.

WORK EXPERIENCE

Pi Robotik *July 2024 - August 2024*
Image Processing Engineering Intern

- Developed image processing projects using Halcon.
- Examined PLC systems and industrial camera workflows.

Acrome Robotik *September 2024 - January 2025*
AI Robotics and Software Development Intern

- Developed a specialized chatbot for Acrome Robotik.
- Created AI-based smart car control systems (mobile and desktop).
- Contributed to AI-powered robotic automation devices.

PROJECTS

BTU-Chatbot – Graduation Project *2025*
Developed a regulation-based intelligent chatbot using a multi-agent Retrieval-Augmented Generation (RAG) architecture powered by LangChain and over 97 internal PDF documents. Built a user-friendly web interface for public interaction.
Technologies: Python (LangChain, PyPDFLoader, Chroma), FastAPI, React.js, Firebase, AWS

Passive IoT Network Analysis *2025*
Created a Python-based tool for passively analyzing IoT traffic. Identified vulnerable devices using Nmap and Scapy, monitored unencrypted traffic with tshark/pyshark, and conducted external domain analysis via whois and nslookup.
Technologies: Python, Nmap, Scapy, tshark, pyshark, whois, nslookup

See more code samples on GitHub: Aytacus

BLOGS

Controlling SMD Mobile Robots with Groq
Implementation of LLM-powered voice and text control for SMD mobile robots using Groq's inference platform.
https://acrome.net/post/controlling-smd-mobile-robots-with-groq

Delta Robot and Conveyor Example
Educational implementation of Delta robot with conveyor system for object recognition and precise handling in automation.
https://acrome.net/post/delta-robot-and-conveyor-example-a-glimpse-into-industrial-automation

TECHNICAL SKILLS

Programming Languages	Python, Java, C, C#, JavaScript, PHP, Dart, Halcon
Frameworks	React.js, Flutter, FastAPI, Flask
AI/ML Skills	Prompt Engineering, Retrieval-Augmented Generation (RAG)
Web & Markup	HTML, CSS
Databases	MySQL, PostgreSQL
Cloud Platforms	AWS
Developer Tools	Git, Firebase, Vercel
Software	MS Office

ACHIEVEMENTS

- Selected among the top 500 national applicants for the National Chip Design Program organized by the Turkish Ministry of Industry and Technology.
- Advanced to the top 60 after technical evaluations and interviews.
- Participated in training on chip architecture, design tools, and semiconductor technologies.

RELEVANT COURSES

Data Science, Image Processing, Machine Learning, Artificial Intelligence, Robotics, Chip Design, Web and Mobile Development

STRENGTHS

Strong communication, time management, and high adaptability skills. Proven ability to work with cutting-edge AI technologies and deliver production-ready solutions.

REFERENCES

Serhan Argun
R&D Leader, Acrome Robotik
Email: serhanargun@acrome.net

HOBBIES

Reading, watching movies, developing tech projects, exploring neuroscience-AI, robot-AI communication, and playing sports.

PERSONAL ATTRIBUTES

High motivation to learn, strong leadership, and teamwork skills. Experience in full-stack development and AI system architecture.

LANGUAGES

Turkish, English, Basic Spanish and Portuguese