

YÜCEL AYTAÇ AKGÜN

◇ akgunyucel45@gmail.com

EDUCATION

Bursa Technical University

2020 - 2025

B.Sc. in Computer Engineering

CGPA: 3.44/4

(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, Chip Design, 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: LangChain-based Multi-Agent RAG Chatbot (Team Project)

2025

Graduation Project - Bursa Technical University

- Developed an intelligent chatbot for BTU using 97 PDF documents and BTU domain web search
- Built multi-agent ReAct architecture with LangChain framework and GPT-4o-mini LLM
- Achieved 95.4% F1-RP score using RAGAS evaluation metrics
- Deployed the full-stack application with React.js frontend on Vercel and FastAPI backend on AWS infrastructure

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
AI/ML Skills	Prompt Engineering, Retrieval-Augmented Generation (RAG)
Web & Markup	HTML, CSS
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, 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 books, watching movies, working on mobile and web projects, following developments in neuroscience and AI intersection.

PERSONAL ATTRIBUTES

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

PERSONAL INFORMATION

Date of Birth: June 19, 2002
Languages: Turkish, English, Basic Spanish and Portuguese
Sports: Football, Basketball

LINKS

Personal Website: <https://yucelaytacakgun.vercel.app/>
GitHub: <https://github.com/Aytacus>
LinkedIn: <https://linkedin.com/in/ycel-ayta-akgn-358130227>