

NURŞEN AKAY

Software Engineering Student | AI & Healthcare Systems Specialist

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[GitHub](#) | [LinkedIn](#) | [Medium](#)

PROFESSIONAL SUMMARY

Junior Software Engineering student at Istanbul Health and Technology University, specializing in Artificial Intelligence (AI), Large Language Models (LLM), and Healthcare Informatics. Actively developing projects like CancerBeacon (AI-driven health platform) and Baseroot V2 (AI Agent Marketplace). Experienced in n8n automation and Bayes optimization. Dedicated to building intelligent systems that process and analyze complex medical data.

TECHNICAL SKILLS

- Programming:** Python (Advanced), C++, JavaScript, HTML/CSS, SQL.
- AI & Data Science:** LLM Systems, LangChain, Prompt Engineering, Bayes Optimization, Model Training.
- Tools & Technologies:** n8n (Automation), Git, GitHub, Docker, VS Code, Figma.
- Specialties:** Healthcare Bioinformatics, Web3/Blockchain, Agile Methodology, R&D Standards.

PROJECTS & EXPERIENCE

R&D Intern | Healthcare Technology Project (CancerBeacon) 2024 – Present

- Designed and trained customized AI models specifically for medical data analysis.
- Integrated GPT-4o-mini and Gemini 1.5 Flash models to interpret complex healthcare datasets.
- Optimized model accuracy through extensive data preprocessing and performance evaluation.

Researcher | TÜBTKAK 2209-A Project 2024 – Present

- Developed AI-driven architectures for federally funded research initiatives.
- Conducted large-scale data modeling using Pandas, NumPy, and Scikit-Learn.
- Managed technical documentation and literature reviews within international R&D standards.

Lead Developer | Baseroot V2 (Web3 & AI Marketplace) 2024

- Developed an AI Agent License Marketplace architecture on the Avalanche Fuji Testnet.
- Prepared technical schemas and documentation for Blockchain and AI integration processes.

AI Model Optimization | Bayes Optimization Project 2024 • Improved efficiency in software systems by optimizing hyperparameters using Bayes Optimization.

EDUCATION

Istanbul Health and Technology University Istanbul, Turkey Bachelor of Software Engineering (3rd Year) Expected Graduation: 2027

CERTIFICATIONS

- GenAI Training - Garanti BBVA (2024)
- ChatGPT & Prompt Engineering - Yeni Nesil Kariyer Okulu (2024)
- Fundamentals of Machine Learning - Yeni Nesil Kariyer Okulu (2024)