

Utku Arslan

AI Engineer | Computer Vision | LLM Systems

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ABOUT ME

AI Engineer and Computer Engineering graduate with hands-on experience in machine learning, computer vision, LLMs, robotics, and software development. Experienced in building AI solutions ranging from CNN-based image classification and neural network projects to LLM fine-tuning, multi-agent systems, and autonomous robotic applications.

PROFESSIONAL EXPERIENCE

AI Engineer, iksap - Developed AI-powered document processing solutions using OCR and large language models to automate invoice data extraction and generate structured JSON outputs. - Built LLM-based analysis and scoring systems to evaluate application activities and support automated decision-making workflows. - Fine-tuned and adapted lightweight local language models for domain-specific use cases, focusing on efficient inference and application-level AI integration. - Designed MCP-based tools and integrations that enabled cloud LLMs to securely interact with internal application functions through conversational interfaces. - Implemented semantic retrieval and contextual memory workflows using Qdrant and vector search, improving prompt relevance and response quality.	04/2025 – Present İstanbul
Software Engineer Intern, Jeton Digital - Developed large datasets through web scraping to support data-driven marketing strategies and AI model training pipelines. - Optimized data extraction processes, contributing to efficient and scalable data workflows.	01/2023 – 05/2023 London, England
Software Engineer Intern, Kafein Technology Solutions - Contributed to Java-based backend development and maintenance of enterprise applications. - Assisted with debugging and system improvements to enhance stability, performance, and code quality.	06/2019 – 08/2019 İstanbul, Turkey
Head of Software Team, University Robotic Team - Led a multidisciplinary team to design and implement advanced AI systems for robotics, emphasizing automation and real-time decision-making. - Mentored team members in integrating AI solutions, fostering a proactive, innovative development environment.	2022 – 2023

EDUCATION

Bachelor of Science in Computer Engineering, Bahçeşehir University Related Courses: Introduction to Neural Networks, Cloud Systems, Android Development	2018 – 2023 İstanbul, Turkey
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PROJECTS

Custom LLM API & Multi-Platform Integration - Designed and developed a centralized API for LLM inference, including authentication, conversation management, and routing across GPU-powered AI services. - Worked with LLM fine-tuning, quantization, prompt engineering, and model integration to support deployment across different applications.	2024
OCR with Custom RNN Model - Developed a custom RNN-based OCR model for sequence-based text recognition and neural network architecture design. - Built and evaluated the training pipeline using Python and deep learning tools.	2026
Skin Lesion Classification with ResNet18 - Fine-tuned a ResNet18-based image classification model in PyTorch for 7-class skin lesion classification, adapting the final classification layer to the target dataset. - Integrated the trained model into a mobile application for practical image-based inference.	2023
Quadruped Robot, Teknofest - Developed AI and software components for a quadruped robotic platform competing at Teknofest. - Worked on robotic decision-making, embedded integration, and intelligent control in a real-world autonomous system.	2024
Autonomous Surface Vehicle, Defense Industry Presidency Competition - Developed computer vision and behavioral AI components to process camera input and support autonomous navigation. - Integrated AI algorithms with embedded systems and hardware for real-time robotic operation.	2022

SKILLS & CERTIFICATIONS

AI & Tools

PyTorch, LLMs, Fine-Tuning, Computer Vision, CNNs, RNNs, Qdrant, MCP, OCR, Lora

Certifications

DP-900: Microsoft Azure Data Fundamentals