

YUSUF BOLAT

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EDUCATION

Bachelor of Mechatronics, Kyoto University of Advanced Science Expected 2027
Relevant Coursework: Python, C Programming, Circuits, Mechatronics Lab, Robotic Manipulators, Mobile Robotics.
Awards: Alumni Association Scholarship, KUAS-E 100% Scholarship

EXPERIENCE

Machine Learning Research Intern Feb 2026 - Apr 2026
Global Digital MOJO - COGNI-AI division *Osaka, Japan*

- Architected 4 novel AI products by integrating Causal AI, Neuro-Symbolic AI, and MCP server into Native and Slack chatbot systems, delivering full technical specifications and working proof-of-concept implementations
- Conducted research on WebGPU, WebXR, FPGA, and RISC-V to define integration strategies across 3 product lines, producing stack recommendations that enabled AI simulation and edge inference development
- Delivered technical research and system architecture documentation for 6 concurrent international projects across 5 countries (Japan, Mexico, Taiwan, Spain, India), aligning engineering and product teams on AI direction

Software Engineering Intern May 2025 - Dec 2025
Mitsubishi Motors *Kyoto, Japan*

- Reduced production defects by 80% by developing a Tool Management System that tracks 10,000+ tools across multiple buildings using real-time inventory, usage logs and predictive-maintenance pipelines.
- Cut tool borrow/return time by 95% by designing automated workflows with error-prevention logic, boosting throughput and removing manual bottlenecks.
- Reduced defect-resolution time by 97% (5 hours → 10 minutes) by building a backtracking and analytics pipeline that links defective motors to the exact tools, operators and usage sessions, enabling rapid root-cause detection.

PROJECTS

Multi-terrain line following Robot with Robotic 5-DoF Arm: Developed a ROS 2-based multi-terrain autonomous robot with a 5-DoF robotic arm using Raspberry Pi, implementing OpenCV (Python) for real-time line following and object detection across stairs, ditches, and uneven terrain.

AI career advisor: Built an AI-powered academic and career planning system using GPT-4, RAG, pgvector, and Google Calendar API, implementing a secure PostgreSQL backend, a custom recurrence engine, and scheduling algorithms with a responsive FullCalendar interface supporting drag-and-drop and real-time updates.

AI learner QA bot: Fine-tuned a 4-bit quantized language model using Unsloth, LoRA and a custom HuggingFace-formatted AI/ML dataset for efficient GPU training.

SKILLS

Programming languages: Python, SQL, Prolog

ML/DL: PyTorch, TensorFlow, scikit-learn, scallopy

LLM & GenAI: Transformers, Fine-tuning, RAG, Neuro-symbolic AI, Agentic Systems

Robotics: ROS2, Raspberry Pi, Computer Vision (opencv, YOLO)

Tools: Git/GitHub, Vercel, Linux/CLI

Languages: Kazakh/Russian (native), English (fluent), Japanese (conversational)

LEADERSHIP

Cornerstone **Leader**; Volleyball Team **VP**; Futsal **Captain**; UMA **Head**; IMF **Lead**; CIS **President**; Dorm **Tutor**