Kutay Murat Kasman

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Profile

Computer Engineering graduate interested in **Artificial Intelligence, Computer Vision, and XR/VR technologies**. I enjoy building practical systems that combine machine learning, software engineering, and interactive 3D technologies, with experience in research, startup development, and real-world software projects.

Education

Istanbul Technical University — Istanbul, Türkiye
B.Sc. in Computer Engineering – GPA: 3.01/4.00 — *2021 – 2026*
Ranked **1,324th nationwide** in the Turkish University Entrance Examination (YKS).

Experience

KorgAI — Istanbul, Türkiye
Co-Founder & Technical Lead — *June 2026 – Present*

- Leading the technical development of an **AR/XR startup** building mixed-reality solutions for industrial inspection and spatial alignment.
- Developing the MVP with **Unity, C#, Meta Quest 3, OpenXR, and Meta XR SDK**, including runtime 3D model interaction, visualization, and immersive user workflows.
- Selected for the **ITU Cekirdek** startup ecosystem.

ITU Visual Intelligence Lab — Istanbul, Türkiye
Computer Vision Research Intern — *August 2025 – September 2025*

- Worked on **human activity recognition** using skeleton-based motion representations, human pose estimation, temporal sequence modeling, and optical-flow-based video analysis.
- Developed deep learning pipelines with **Python, PyTorch, OpenCV, and LSTM-based models**.
- Achieved **94.89% video-level classification accuracy** using skeleton-based motion features.

BİTES – Defence & Aerospace Technologies — Ankara, Türkiye
Software Engineering Intern – Unity & 3D Applications — *July 2025 – August 2025*

- Contributed to **Unity-based 3D software development** using C#, focusing on interactive applications and real-time 3D visualization.
- Gained hands-on experience in software implementation, debugging, testing, and integration.

Projects

AI-Powered Historical Magazine Archive | *Python, OCR, RAG, LLM*

- Digitized 1980s technology magazines using OCR and built a **RAG-based** system for querying and exploring historical technical content.
- Built a retrieval pipeline that generates answers grounded in the archived magazine corpus while preserving the technological context of the period.

Football Match Outcome Prediction | *Python, XGBoost, Pandas, Scikit-learn*

- Built a machine learning pipeline for football match outcome prediction using historical match data and **XGBoost**.
- Performed data preprocessing, feature engineering, model optimization, and evaluation to transform raw match statistics into predictive features.

Lovers Page – Web & Embedded Platform | *Node.js, Express.js, Vue.js, MongoDB, Socket.IO, ESP32-S3*

- Developed and deployed a full-stack platform using **Node.js, Express.js, Vue.js, MongoDB, and Socket.IO** with real-time communication.

Technical Skills

Programming: Python, C++, C, C#, Java, JavaScript, SQL
AI / Machine Learning: PyTorch, Scikit-learn, XGBoost, Pandas, LSTMs, RAG, LLMs
Computer Vision: OpenCV, CNNs, Human Pose Estimation, Optical Flow, OCR, Feature Extraction
XR / 3D: Unity, Meta XR SDK, OpenXR, Meta Quest 3
Web / Backend: Node.js, Express.js, Socket.IO, Spring Boot, Vue.js, MongoDB, REST APIs

Languages

Turkish: Native **English**: C1 – Advanced **Chinese**: Beginner