

KUTAY MURAT KASMAN

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EDUCATION

Istanbul Technical University

B.Sc. in Computer Engineering – GPA: 3.01/4.00

Ranked **1,324th nationwide** in the Turkish University Entrance Examination (YKS).

Istanbul, Türkiye

2021 – 2026

EXPERIENCE

KorgAi

Co-Founder & Technical Lead

Istanbul, Türkiye

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 and visualization workflows.
- Developed **computer vision and geometric alignment** methods to align virtual engineering models with real-world structures.
- Selected for the **ITU Cekirdek** startup ecosystem.

ITU Visual Intelligence Lab

Computer Vision Research Intern

Istanbul, Türkiye

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 temporal models** on the AIST++ dance dataset.
- Achieved **94.89% video-level classification accuracy** using skeleton-based motion features.

BİTES - Defence & Aerospace Technologies

Software Engineering Intern — Unity & 3D Applications

Ankara, Türkiye

July 2025 – August 2025

- Contributed to **Unity-based 3D software development** using **C#**, with a focus on interactive applications and real-time visualization.
- Gained hands-on experience in software implementation, debugging, testing, and integration within a structured engineering workflow.

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.
- Developed a retrieval pipeline that generates responses 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, and model 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 web platform using **Node.js, Express.js, Vue.js, and MongoDB** with real-time communication via **Socket.IO**.
- Extended the platform into a **CrowPanel ESP32-S3 touchscreen device**, integrating web services with embedded hardware.

TECHNICAL SKILLS

Programming Languages: 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:** B2 – Upper-Intermediate **Chinese:** Beginner