

FURKAN GÖKSU

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EDUCATION

Istanbul Technical University

Artificial Intelligence and Data Engineering
GPA : 3.38

2021 – 2026
Istanbul, Turkey

WORK EXPERIENCE

Data Scientist Architect

May 2025 – Present
Istanbul, Turkey

- Developing LLM-powered applications focused on OCR and document analysis using Vision Transformer architectures.
- Designed and implemented autonomous agent-based systems for internal process optimization.
- Designing and deploying AI systems using MCP and agentic AI patterns to streamline complex decision-making workflows.

Undergraduate Research Assistant Learning from Data and Optimization Lab, ITU

January 2025 – Present
Istanbul, Turkey

- Conducting research on recommendation systems and fairness in LLM-based recommender models.
- Preprocessing real-world datasets and evaluating model performance based on fairness metrics.
- Collaborating in academic research supervised by Prof. Şule Gündüz Öğüdücü.

Software Engineer Commencis

September 2024 – July 2025
Istanbul, Turkey

- Developed suggestion systems using vector embeddings to create personalized suggestions.
- Worked with LLMs to develop AI-powered NLP applications.
- Worked on AI-driven audio and NLP applications, specializing in speaker diarization, transcription, and voice data processing, with a focus on improving model performance and accuracy.
- Built and deployed an in-house LLM environment, developed AI agents using RAG pipelines to support internal workflows.

Software Engineer Intern Commencis

June 2024 – August 2024
Istanbul, Turkey

- Built backend services using FastAPI and Spring for efficient data flow in microservices architecture.
- Designed secure RESTful APIs with Microsoft Graph API, Java, and Spring and Azure identity services.
- Developed a banking application backend to handle secure transactions and account management using Java and Spring.
- Utilized MongoDB for data storage and optimized retrieval processes.
- Developed speaker diarization models for multi-speaker audio using Pyannote and Whisper, calculating performance scores to enhance identification accuracy.

Autonomous Team Member ITU ZES Solar Car Team

January 2023 – June 2024
Istanbul, Turkey

- Designed and developed software for autonomous driving systems, covering perception, planning, and control.
- Configured sensors such as LiDAR, cameras, and GPS for accurate data acquisition.
- Specialized in AI and ML model development for enhanced autonomous driving capabilities.
- Utilized C++, Python, and ROS to implement advanced algorithms.

CERTIFICATIONS

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| Machine Learning Specialization DeepLearning.AI | <i>September 2023</i> |
| IBM Data Science Professional Certificate IBM | <i>October 2023</i> |
| Deep Learning Specialization DeepLearning.AI | <i>January 2024</i> |
| Introduction to Artificial Intelligence with Python Harvard | <i>September 2023</i> |

SKILLS

Programming Languages: Python, C++, Java, SQL

Tools: Docker, Git, Kafka, Apache NiFi, Elasticsearch, Kibana, MongoDB

Technologies: AWS, Azure, Apache Spark, Hadoop

Languages: English (Fluent), Turkish (Native), German (Beginner)