



Muhammed Ruşen Birben

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🎓 Education

Bachelor's Degree in AI and Data Engineering

Istanbul Technical University – GPA: 3.61

09/2022 – 07/2025

İstanbul, Türkiye

Bachelor's Degree in Electronics and Communication Engineering

Istanbul Technical University – Transferred to AI & Data Engineering in 2022

09/2020 – 08/2022

İstanbul, Turkey

💼 Professional Experience

Co-founder & AI Engineer

Fiction Studios Teknoloji 07/2025 – Present | Istanbul

Building Demis, a real-time voice translation platform powered by LLMs. Developing AI systems for cross-platform (mobile, web, desktop) seamless communication with cultural context preservation.

Junior AI Engineer

CyberQuote 03/2025 – 07/2025 | Istanbul

Worked as an artificial intelligence engineer at CyberQuote, which is a wholly owned subsidiary of Phillip Capital. My work covers automations where LLMs are a part and agentic use of LLMs inside the company and in their websites.

AIOps Research Intern

Havelsan 08/2024 – 09/2024 | Istanbul

Conducted researches for an AIOps project that uses software log data for predictive maintenance, then use the found insights to generate a demo on HDFS logs.

NLP Research Intern

ITU NLP Lab. 07/2024 – 08/2024 | Istanbul

Conducted researches on utilizing LLMs for financial applications. Researches covered: Financial forecasting, sentiment analysis, tool using, financial reasoning, applications of RAG on financial LLMs.

✿ Courses

Deep Learning Specialization

Deeplearning.ai – Andrew Ng

Sequence Models, CNNs, NN and DL basics, Structuring ML Projects, Improving Deep NNs.

AWS Cloud Technical Essentials

AWS Coursera

Core AWS concepts, security practices, EC2, Lambda, ECS, RDS, DynamoDB, S3.

🌐 Languages

English – Fluent

Turkish – Native

leftrightarrow Projects

Demis

Real-Time Voice Translation / 07/2025 – Present

LLM-powered translation platform preserving cultural context and emotional tone. Features transcript support, multi-participant management, personalized voice synthesis, and automatic meeting summarization.

Tobor [🎥 Video]

Amazon Warehouse Robot / 09/2024 – 01/2025

Developed an autonomous warehouse robot system simulating Amazon's logistics operations, focusing on efficient navigation and obstacle avoidance. Designed and implemented advanced pathfinding, obstacle avoidance, and task scheduling algorithms using Python and robotics simulation frameworks. The robot is able to see its environment and detect human and cargo boxes with a custom trained YOLO model.

Mobile Feasible Virtual Try On

Virtual Clothing System / 03/2024 – 06/2024

Enhanced a virtual try-on system, enabling users to visualize clothing on themselves without physical wear. Focus was on optimizing the model for mobile devices by reducing its memory footprint, making realistic virtual fittings more accessible and efficient.

AIZheimer

Machine Un-Learning / 03/2024 – 06/2024

This project aims to selectively remove specific concepts from Stable Diffusion 2.1 while keeping its other capabilities intact. The goal is to make the AI unable to generate images of particular target concepts while still producing high-quality images of everything else.

Biting-The-Bytes [🎥 Demo]

Transformers For Diacritic Restoration / 03/2024 – 06/2024

This project aimed to improve Turkish text by automatically adding missing accent marks and special characters, which are crucial for proper pronunciation and meaning. We used T5, an LLM that Google developed, to restore accents and enhance readability for Turkish speakers.

♥ Interests

Coffee – Specialty coffee enthusiast (V60, Aeropress, Moka Pot).
Books – Philosophy, economics, finance, and AI/CS topics.
Anime/Manga – Avid viewer and reader.

To-AI-or-Not-to-AI [💻 Demo]

GPT-Detector | 03/2023 – 06/2023

This project develops an ensemble method to detect AI-generated text, particularly content similar to ChatGPT's output. It uses three fine-tuned AI models to analyze and classify text as either AI-generated or human-written. The system addresses concerns about academic integrity and misinformation.

Anime Recommender

Recommendation System | 09/2022 – 02/2023

Created a personalized anime recommendation system by combining two approaches: analyzing similar users' preferences and considering anime characteristics. Using a large dataset of user ratings and anime information, the system learns patterns to suggest shows users might enjoy.