CONTACT

mahmutefeturkol@hotmail.com
linkedin.com/in/efeturkol
github.com/efeturkol

EDUCATION

İnönü University
Computer Engineering
2023 – Present

Özel İntegral Anadolu High School
2018 – 2022

TED Malatya College
2010 – 2018

LANGUAGES

English B2
German A1

SKILLS

Languages: Python, Java, Kotlin, TypeScript
AI/LLM: RAG, Prompt Engineering, scikit-learn
Frontend: JavaScript, React, Vite, HTML, CSS, React Native/Expo
Backend: Node.js, REST API
Database: PostgreSQL, Supabase
Tools: Git, GitHub, Vercel, Microsoft Azure, AdMob

Mahmut Efe Türkol

Backend Developer | AI & LLM Integration

ABOUT ME

4th-year Computer Engineering student at İnönü University, working at the intersection of backend development and AI/LLM systems (RAG, prompt engineering). Gained leadership experience within the IEEE and Google DSC communities.

EXPERIENCE

Software & AI Intern *(Microsoft Cloud Summer School)*
Microsoft June 2026 – July 2026
Built a RAG assistant for BDDK compliance documents using Phi-3.5 Mini, Foundry Local, and PostgreSQL. Implemented the full pipeline end-to-end: document chunking, embedding, retrieval, and response generation.

Co-Lead & Supervisory Board Chair
IEEE İnönü University Student Branch July 2025 – April 2026
Led technical event planning and internal team coordination as Supervisory Board Chair. Owned member development processes.

Co-Lead
Google Developers Student Club August 2024 – July 2025
Contributed to the planning and execution of workshops and hackathons; took part in forming and coordinating project groups.

Core Team Member
Google Developers Student Club August 2023 – July 2024
Took part in event organization and technical content creation.

PROJECTS

BDDK Regulatory Compliance RAG System *(In Progress)*
Stack: RAG, LLM, Microsoft Azure, Cloud
Built a RAG system on BDDK (Turkish banking regulator) compliance documents for banking and fintech use cases. Developed during the Microsoft Cloud Summer School internship; work is still ongoing.

Pan-Cancer Gene Expression Classification *(Academic Research Project)*
Stack: Python, scikit-learn, Random Forest, SHAP
Conducted an academic research project with a faculty member, building a Random Forest classifier on a pan-cancer RNA-Seq dataset (801 samples, 20,531 genes, 5 cancer types: BRCA, KIRC, COAD, LUAD, PRAD). Added SHAP-based explainability; the model achieved ~99.4% accuracy.

İnşirah — Prayer, Supplications & Quran *(iOS – Live)*
Stack: Expo, React Native, TypeScript, AdMob
Built an iOS app bringing together prayer times, supplications, Quran, and a dhikr counter. Published on the App Store; free with an ad-supported (AdMob) model, with a premium system ready to be enabled.

App Store: İnşirah — App Store

Gezio *Personalized Turkey Travel Planner*
Stack: React, Vite, Supabase, Leaflet.js, OSRM, Vercel
Built a web app featuring personalized route planning and interactive map integration. Web version is complete; a mobile version is in development.

Live Demo: gezio-delta.vercel.app

FarmaIQ *Adverse Drug Reaction Detection from Social Media*
Stack: Python, BERTurk, NLP, Fine-tuning
Built an NLP project detecting adverse drug reactions from Turkish social media data. Fine-tuned a BERTurk model for classification.

GitHub: github.com/efeturkol/farmaiq