

ABDULRAHMAN ALHALQI

AI Engineer | Machine Learning | NLP, LLM & RAG Systems | Full-Stack AI Developer

B.Sc. in Computer Engineering | Karabuk University | Karabuk, Türkiye | 2022 - 2026

POFILE SUMMARY

AI Engineer with hands-on experience building end-to-end AI systems across machine learning, computer vision, natural language processing, and large language model applications. Skilled in developing retrieval-augmented generation (RAG) assistants and agentic workflows with LangChain and LLM APIs, grounding responses in database records and integrating AI capabilities into scalable FastAPI, PostgreSQL, and React applications. Combines applied AI development with strong full-stack software engineering and practical deployment experience.

TECHNICAL SKILLS

Programming: Python, JavaScript, TypeScript, SQL

LLM, NLP & RAG: LangChain, OpenAI APIs, Retrieval-Augmented Generation (RAG), LLM Applications, Agentic Workflows, Prompt Engineering, Semantic Retrieval, Context Grounding

AI & Machine Learning: PyTorch, TensorFlow, Scikit-learn, LangChain, Pinecone, OpenCV, Pandas, NumPy

Backend & Databases: FastAPI, REST APIs, SQLAlchemy, Supabase, PostgreSQL, MySQL, Alembic, JWT Authentication

Frontend & Mobile: React, Next.js, Tailwind CSS, HTML, CSS

Tools & Deployment: Git, GitHub, Postman, Render, Vercel

PROFESSIONAL EXPERIENCE

AI Engineering Intern | Ultimate Solution Company

Istanbul, Türkiye | Feb 2026

- Contributed to web-based business systems and backend services, supporting feature implementation, testing, and database integration.
- Supported the integration of AI models, LLM-powered conversational assistants, and automated workflows into customer-facing and internal applications.
- Collaborated with software teams across business applications, web technologies, and AI-enabled solutions.

Federated Learning Research Intern | Karabuk University

Karabuk, Türkiye | Jun 2025 - Jul 2025

- Developed federated text-classification experiments using Flower, PyTorch, and the DBpedia dataset.
- Simulated distributed training across multiple clients using non-IID data partitions and FedAvg aggregation.
- Evaluated model performance, maintained experiment logs, and documented privacy-preserving machine-learning findings.

Machine Learning Intern | Scramblebit Pazarlama Programlama

Istanbul, Türkiye | Jul 2024 - Aug 2024

- Prepared and analyzed datasets using Python, Pandas, and machine-learning libraries.
- Trained and evaluated machine-learning and deep-learning models using practical datasets.
- Applied data preprocessing, feature engineering, visualization, and model evaluation techniques.

PROJECTS

SelfPilot AI - Personal Productivity Platform | Independent Project

2025 - 2026

- Built a cross-platform personal management application using Flutter, FastAPI, Supabase, and PostgreSQL to help users manage finances, tasks, goals, habits, and daily productivity.
- Developed an AI recommendation pipeline that retrieves a user's saved financial records, tasks, goals, and progress data, combines them into structured context, and sends the information to an LLM for analysis.
- Enabled the LLM to identify spending patterns, productivity gaps, overdue responsibilities, and goal progress, then generate personalized, context-aware recommendations tailored to the user's current situation.
- Designed secure, user-scoped APIs and data workflows to ensure that every analysis and recommendation is generated only from the authenticated user's records.

ADDITIONAL PROJECTS

FireWatch - AI-Powered Wildfire Monitoring System | Academic Capstone Project

2025 - 2026

- Designed a two-stage system combining weather-based wildfire risk prediction with YOLOv8 fire and smoke detection from drone video.
- Integrated Open-Meteo data, machine-learning inference, FastAPI services, and DJI Tello video streaming into a monitoring dashboard.

Active Speaker Detection & AI Summarization | Independent Project

2025 - 2026

- Developed a multimodal pipeline using MediaPipe, SORT, and Whisper for face tracking, active-speaker detection, transcription, and meeting summarization.

Smart Parking System | Independent Project

2025 - 2026

- Developed a computer vision system using YOLO and EasyOCR for license-plate recognition and parking-space occupancy detection.
- Integrated ESP32-CAM input with FastAPI services and a React-based management interface.

AI Attendance System | Independent Project

2025 - 2026

- Built a real-time facial-recognition attendance platform with automated identity verification, attendance logging, and reporting.
- Integrated computer-vision inference with FastAPI services and a React-based user interface.

LEADERSHIP & VOLUNTEERING

Student Support Committee Member | Yemeni Student Union

Karabuk, Turkiye | 2022 - 2024

- Supported the registration and onboarding of newly admitted Yemeni students at Karabuk University.
- Helped students communicate with university offices and understand administrative procedures.
- Contributed to orientation, coordination, and community-support activities for international students.

EDUCATION

B.Sc. in Computer Engineering | Karabuk University

Karabuk, Turkiye | 2022 - 2026

Relevant Coursework: Artificial Intelligence, Machine Learning, Computer Vision, Intelligent Systems, Database Systems, Software Engineering

CERTIFICATIONS & TRAINING

- Google Cloud - Innovating with Google Cloud AI (2026)
- Microsoft - Microsoft Azure Fundamentals (2026)
- Oracle Academy - Database Design and Database Programming with SQL (2024)
- Meta - Database Structures and Management with MySQL (2024)
- Meta - Programming in Python (2024)
- IUCDL Diploma - International Computer Driving License (2019 - 2020)

LANGUAGES

Arabic: Native

English: Professional Working Proficiency

Turkish: Conversational

PROFESSIONAL LINKS

Portfolio: www.abdulrahmanalhalqi.com

LinkedIn: [linkedin.com/in/abdulrahman-alhalqi-88028429a](https://www.linkedin.com/in/abdulrahman-alhalqi-88028429a)

GitHub: github.com/Halaqi

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