

Ece Dalpolat

AI Engineer & Data Scientist

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PROFILE

AI Engineer specializing in production LLM systems and enterprise AI platform engineering. At Qkare, built and owns a multi-tenant AI stack spanning a 100+ model dbt transformation layer, LangChain/LangGraph agent pipelines, and FastAPI microservices — from data ingestion to deployed, observable product. Measures quality through LLM-as-judge evaluation pipelines and distributed tracing, not just deployment.

EXPERIENCE

Qkare, İstanbul, Jun 2025 to Present

AI Engineer

- Owned the full engineering stack of a multi-tenant B2B AI platform, from data ingestion and transformation through agent deployment and production monitoring.
- Built and maintained a 3-layer dbt transformation pipeline (100+ models) with native PostgreSQL Row-Level Security (RLS) and AI pre-computation data marts, consolidating psychometric and behavioral assessment data from AON, Saville, and Assessment Center sources into a consistent, tenant-isolated decision layer.
- Developed a LangChain ReAct behavioral analytics agent capable of answering natural-language business intelligence queries over Saville, 360, 9-box, and competency profiles; enforced data security through a 4-layer pipeline combining JWT authentication, RLS, InputGuard/OutputGuard filters, and YAML-based threat pattern detection.
- Architected a LangGraph multi-agent coaching platform with a 5-dimension LLM-as-judge Referee Agent; introduced a real-time voice pathway via OpenAI Realtime API, reducing test session turns by 49% and raising evaluation scores from 7.88 to 8.2.
- Delivered two production AI advisor microservices using FastAPI: a KPI Advisor generating APQC-aligned, SMART-formatted KPIs with Redis caching and offline LLM-as-judge auditing, and a Skills Advisor selecting exactly 12 competency dimensions per job title from a closed vocabulary using DSPy expert ensemble inference and SHA-256 multi-layer caching.
- Designed an Agent API Gateway monorepo centralizing multiple AI microservices behind a single invoke contract with shared JWT authentication, per-agent Docker Compose topology, and dynamic GitLab CI child pipeline generation — reducing integration overhead for each new agent deployment.
- Shipped a corporate website AI assistant using a cost-tiered inference cascade (rule-based → semantic cache → RAG → LLM) with FAISS and Milvus vector stores and prompt injection protection, lowering repeated-query inference cost while keeping responses aligned with live site content.
- Standardized observability across all services using OpenTelemetry and Langfuse, covering distributed tracing, prompt logging, and health monitoring to support production incident response.

Miuul, İstanbul, Jan 2025 to Present

Teaching Assistant

- Instruct graduate-level data science and machine learning courses through weekly lectures and hands-on applied project sessions.
- Evaluate student progress, design assessments, and provide technical feedback to support applied ML skill development.

Işık University, İstanbul, Jan 2024 to Jun 2025

Graduate Research Assistant & Research Data Scientist

- Collected and processed field data across honey value chain stages; trained and optimized predictive models using Python, TensorFlow, and scikit-learn to support agricultural process automation research.
- Developed RESTful API endpoints enabling downstream system integration for a smart agri-food data platform.
- Mentored undergraduate students on deep learning and data science projects; led software laboratory sessions supporting faculty research objectives.

Eriklabs, İstanbul, Nov 2023 to Jan 2024

Volunteer Software Test Engineer

Designed and executed automated test suites using Selenium and TestComplete; performed manual regression testing and stability validation to improve release confidence.

Aphel, İstanbul, Jul 2022 to Sept 2022

Volunteer Software Engineer

Developed web and backend applications in national research environments using Java, ASP.NET MVC, C#, and SQL Server, contributing to software delivery under structured team workflows.

EDUCATION

Işık University, İstanbul, Jan 2024 to Present

MSc Information Technologies

GPA 3.57

Thesis Project: Process Automation in Beekeeping and Honey Harvesting Value Chains

- Developed predictive models using Python, TensorFlow, and scikit-learn to classify and optimize honey production stages.
- Designed a novel Hybrid Meta-Heuristic Algorithm (ABC-PSO) for hyper-parameter optimization, outperforming standard grid search methods.
- Tech Stack: Python, TensorFlow, scikit-learn, REST APIs, PostgreSQL.

Kırklareli University, Kırklareli, Jan 2018 to Jan 2023

BSc Software Engineering

GPA 2.71

SKILLS

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|--------------|--------------------|-----------------|--------------|
| • LangChain | • LangGraph | • DSPy | • RAG |
| • OpenAI API | • Pydantic | • LLM-as-judge | • dbt Core |
| • PostgreSQL | • Apache Superset | • Pandas | • SQL |
| • FastAPI | • Machine Learning | • WebSocket | • JWT |
| • Docker | • GitLab CI/CD | • OpenTelemetry | • Langfuse |
| • Python | • SQL | • Deep Learning | • NLP |
| • FAISS | • Milvus | • Streamlit | • Kubernetes |
| • TensorFlow | • scikit-learn | • pytest | • MyPy |

LANGUAGES

- Turkish (Native)
- English (B2 - C1)