

Efecan Küçük

Data Analyst

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EDUCATION

- **Istanbul University** 2024 - 2026
Associate Degree in Web Design and Coding Istanbul, Turkey
- **Piri Reis University** 2019 - 2021
Undergraduate Studies in Mechatronics Engineering Istanbul, Turkey
 - Relevant Coursework: Engineering Mathematics, Programming Fundamentals, System Dynamics.

SOFTWARE DEVELOPMENT PROJECTS

- **Foneria — Cross-Platform Investment App** 2026 - Present
Swift/SwiftUI (iOS) · Kotlin/Jetpack Compose (Android) Foneria
 - Developed and maintained a **production fintech mobile application** across iOS and Android, enabling users to manage fund portfolios, execute trades, and track performance in real time.
 - Architected with **MVVM + Clean Architecture**, integrating Hilt DI, Retrofit, Coroutines/Flow, Firebase (Analytics, Crashlytics, Remote Config), and KYC/video verification flows.
- **Agentic Fund Discovery API** 2026 - Present
NestJS, TypeScript, PostgreSQL, Docker, Swagger Foneria
 - Built a RESTful API with 15+ filter criteria for fund discovery, powering AI chatbot interactions with intelligent caching and session-based authentication.
 - Designing a **multi-agent AI architecture** for autonomous fund analysis, portfolio construction, and market intelligence generation.
- **Automated Document Processing & Reconciliation Tools** 2025 - Present
Python, pdfplumber, Pandas, PostgreSQL Foneria
 - Engineered an AI-augmented pipeline extracting portfolio data from **489 fund disclosure PDFs**, using OCR fallback and LLM-based error correction for high-accuracy parsing.
 - Automated monthly revenue-sharing reconciliation and algorithmic fund selection, replacing manual Excel-based workflows.

EXPERIENCE

- **Foneria** February 2025 - Present
Data Analyst Istanbul, Turkey
 - Analyze complex datasets using SQL and Python to drive strategic decisions, **translating technical findings into actionable insights for stakeholders.**
 - Design and optimize interactive dashboards (Power BI, Looker, Tableau) to visualize KPIs and improve executive reporting efficiency.
 - Implement **Model Context Protocol (MCP)** and **RAG frameworks** for AI-driven insights, enhancing automated advisory accuracy.
 - Engineer automated data workflows using **n8n** and **Qdrant**, streamlining information retrieval and semantic search capabilities.
 - Process and validate financial data pipelines (KAP API), ensuring data integrity and compliance with Turkish financial regulations.
 - Execute **CLTV and RFM segmentation** to identify high-value user behavior, supporting data-driven CRM strategies via Netmera.

Selected Analytical Projects:

- **Real-Time Anomaly Detection Engine:** Engineered a 3-layer monitoring system (React, NestJS, PostgreSQL) processing real-time financial streams. Implemented **Modified Z-Score** with **MAD (Median Absolute Deviation)** for robust outlier detection, eliminating 60% of false positives via **DOW-normalized baselines** and **Day-parting algorithms** (Same-Hour Comparison).
- **AI-Augmented Insight Generation:** Integrated **OpenRouter API (GPT-4)** to contextualize statistical alerts; designed a prompt engineering pipeline that evaluates cross-metric correlations (e.g., Net Flow vs. Cash Out) and funnel conversion ratios, delivering human-readable root cause analysis.

- **Automated Data Integration Pipeline:** Built an **Apache Airflow** ETL to sync daily records with CRM, achieving an **80% performance gain**.

•**Foneria**

November 2024 - February 2025

Data Analyst Intern

Istanbul, Turkey

- Supported BI initiatives by cleaning and structuring raw multi-source data for behavioral analysis.
- Automated daily operational reports using SQL and Excel, reducing manual reporting time for the analysis team.
- Developed initial data visualization prototypes for tracking user journey funnels and conversion rates.

CERTIFICATIONS

- Python for Data Science and Machine Learning** Certificate Program
- Associate Data Scientist in Python** Datacamp
- Intermediate SQL** Datacamp

TECHNICAL SKILLS

Programming & Databases: Python (Pandas, NumPy, Matplotlib), SQL (PostgreSQL, Window Functions), TypeScript, R

Mobile Development: Kotlin (Jetpack Compose, Coroutines, Hilt), Swift (SwiftUI, Combine), Firebase, MVVM

AI & GenAI: RAG, Model Context Protocol (MCP), n8n, LLM, Prompt Engineering

Data Engineering: Apache Airflow, NestJS, ETL Pipelines, Data Validation, Docker, Real-time Stream Processing

Visualization: Power BI, Looker Studio, React (Recharts, Mantine UI), Interactive Dashboards (Sparklines, IQR Bands)

Statistical Analysis: Robust Statistics (Modified Z-Score, MAD), Time Series (Trend Analysis, Seasonality), HHI

REFERENCES

•**Doğan Aktı**

Chief Product Officer at Foneria

<https://www.linkedin.com/in/dogan-akti-43503967/>