



Merve Hatice Günak

Senior Data Engineer

📍 Eindhoven, Netherlands  github  medium

SUMMARY

Results-driven Data Engineer with 5+ years of experience in building scalable ETL solutions, real-time data pipelines, and cloud architectures. Proven expertise in deploying production-grade systems for industrial use cases, with strong knowledge of streaming technologies, time-series processing, and data governance. Experienced in cross-functional collaboration and bridging data engineering with analytics teams in agile environments.

SKILLS

Technologies & Tools: Python, SQL, Bash, Airflow, Docker, Kubernetes, PySpark, Kafka, Terraform, AWS, GCP, Databricks, Hadoop, Git, CI/CD, PowerBI, etc.

Expertise: ETL/ELT Pipelines, Real-time Data Processing, Time-series Analysis, Cloud Architectures, Data Governance, Schema Design, API Development, Scrum/Agile

PROFESSIONAL EXPERIENCE

Aug 2025 – Present
Utrecht, Netherlands

Senior Data Engineer, Valcon

- Implemented data pipelines and ETL processes using Databricks and PySpark.
- Optimized operations and source system integrations.
- Collaborated with teams on implementation and best practices in regulated environments.

May 2024 – Apr 2025
Leiden, Netherlands

Data Engineer, DataPebbles B.V.

- Built Kafka-based streaming infrastructure for an Italian energy company, implementing schema design, monitoring, and AWS cloud deployment
- Maintained production ETL workflows using PySpark and Python for finance sector client
- Implemented data governance practices and metadata management across client projects
- Collaborated with cross-functional teams to bridge data engineering and analytics requirements
- Contributed to GenAI platform development, gaining experience with LLM technologies and vector databases

Jan 2022 – Feb 2023
Ankara, Turkey

Data Engineer, SignumTTE

- Productionized ETL pipelines for facility management systems serving hospitals, malls, and public institutions
- Deployed containerized applications on Red Hat OpenShift, ensuring scalability and cloud-readiness
- Built automated CI/CD pipelines with GitHub Actions for continuous deployment and testing
- Implemented data quality checks and monitoring for production systems

Sep 2019 – Jul 2021
Ankara, Turkey

Data Scientist, SPP42 Software Development and Consulting

- Developed production-ready forecasting models for the Ministry of Energy's wind power monitoring center
- Processed and analyzed time-series data from multiple wind power plants across Turkey
- Built end-to-end ML pipelines including data mining, feature engineering, and model deployment
- Created data visualizations and reports for stakeholder communication

KEY PROJECTS

Real-time Streaming Data Pipeline - *Italian Energy Company (DataPebbles, 2024-2025)* Built Kafka streaming infrastructure for IoT sensor data with AWS deployment and monitoring.


Financial Reporting ETL System - *CBOE (DataPebbles, 2024-2025)* Enhanced existing PySpark/Python ETL scripts based on business requirements, implemented new automated reporting solutions, and supported the reporting team with scalable financial data processing.

Spotify ETL Pipeline - *Personal Project (2023)* Designed automated data pipeline with Airflow orchestration.

Microservices Container Migration - *SignumTTE (2022-2023)* Led migration of Node.js microservices to Red Hat OpenShift. Dockerized services, created CI/CD pipelines with GitHub Actions, tested on Kubernetes, and coordinated cross-team deployment for production-ready containerized systems.


Wind Power Forecasting System - *SPP42 (2019-2021)* Developed ML models for national wind energy forecasting using SCADA data and weather forecasts in collaboration with the Ministry of Energy, delivering daily predictions for grid management across Turkey.

Certificates & Courses & Challenges

Databricks Certified Data Engineer Professional 

AWS Certified Cloud Practitioner 

Fruitpunch AI for European Wildlife 

EnerjiSA Data Science and Analysis Bootcamp 

Azure Data Engineer Associate (DP-203) - In Progress

EDUCATION

2015 – 2019
Bursa, Turkey

Bachelor of Science, Economics
Bursa Uludag University

LANGUAGES

Turkish, English