VOLKAN ÇIÇEK

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SUMMARY

- Senior Data Scientist with a Mathematics background and **4+ years of experience** (including intensive research projects) in designing scalable AI solutions. Expert in **Generative AI (LLMs, RAG)**, **AIOps**, and MLOps pipelines using Python, PyTorch, and Azure. Proven track record of enhancing operational efficiency by delivering end-to-end machine learning models from prototype to production.

EXPERIENCE

Senior Data Scientist   Sep. 2025 – Present

Logo Yazılım   *Ataşehir, Istanbul, Turkey (Hybrid)*

- Providing technical leadership and mentorship within the data science team, guiding junior data scientists, interns, and part-time staff in advanced methodologies and best practices, contributing to their professional growth.
- Defining and championing the strategic direction for the team's advanced **AIOps** and **Generative AI** initiatives, ensuring alignment with critical business objectives and maximizing impact across product development.
- Driving the end-to-end delivery of complex AI solutions, overseeing major projects from advanced conceptualization and prototyping to robust deployment, continuous monitoring, and optimization within the team.
- Pioneering the integration of cutting-edge data science methodologies and **MLOps** principles within the team, enhancing technical capabilities and operational efficiency for high-impact projects.
- Spearheading advanced **Generative AI** solutions, including the strategic design and enhancement of intelligent chatbots, sophisticated **text-to-SQL engines**, and scalable **Retrieval-Augmented Generation (RAG)** systems.
- Collaborating effectively with product and engineering counterparts to translate complex business challenges into actionable data science projects and effectively communicate technical insights.
- Establishing coding standards and enforcing **Clean Code** principles during code reviews, significantly reducing technical debt and improving maintainability.

Data Scientist   Jan. 2022 – Sep. 2025

Logo Yazılım   *Kocaeli, Turkey*

- Contributed significantly to the **Mariana** project, a **TÜBİTAK TEYDEB**-supported **AIOps** initiative, developing AI systems for anomaly detection and forecasting on large-scale time-series data. Managed infrastructure performance by validating models with hypothesis testing, analyzing logs, and monitoring key metrics (RMSE, MAE), significantly reducing downtime.
- Engineered robust **ETL** processes and automated data workflows with **Apache Airflow** for key products like **Logo İşbaşı** and **Logo Bulut ERP**, scaling data ingestion and reporting.
- Designed and managed end-to-end data pipelines (Python, Airflow). Sourced data from diverse endpoints like REST APIs, relational databases (PostgreSQL), and web sources using Python scrapers (Requests, BeautifulSoup). Applied expertise in HTML DOM, CSS Selectors, and XPath for precise data extraction, ensuring high data quality for ML models.
- Created AI-powered tools and code assistants (**AI Agents**) to accelerate development cycles and designed **LLM**-driven test scenarios to improve software quality.
- Led a computer vision initiative using deep learning and libraries like OpenCV & Pillow (PIL) to monitor real-time video feeds, proactively detecting workplace safety risks.
- Deployed advanced multi-model **OCR** pipelines to digitize documents and improve data quality, integrating them with PaaS services like **Logo Flow** and **Logo HR**.
- Drove customer segmentation projects using **RFM** analysis and guided the team through the entire data lifecycle, from ideation to production deployment and monitoring.

Junior Data Scientist   Jul. 2021 – Dec. 2021

Logo Yazılım   *Kocaeli, Turkey*

- Optimized an **OCR** pipeline for Turkish character recognition by implementing advanced data pre-processing techniques using Python, OpenCV, and Pillow (PIL), which significantly enhanced model accuracy and processing speed.
- Architected and deployed a **FastAPI**-based **RESTful API** to automate the content migration from Atlassian to the company's core documentation product, **Logo DYS**. As part of this pipeline, leveraged advanced **Transformer** models (**BERT, T5**) to auto-generate a high-quality Turkish Q&A dataset from the raw documentation. This enriched dataset was then integrated with **Microsoft Azure Knowledge Base**, serving as the intelligent backend for a new customer-facing chatbot.

Information Technology Intern
Aug. 2020 – Sep. 2020

MediaMarkt Turkey
Istanbul, Turkey

- Worked on troubleshooting and resolving IT systems issues, ensuring business continuity.
- Assisted in maintaining hardware and software systems, gaining hands-on experience with enterprise infrastructure.

Quality Control Staff
Jun. 2017 – Sep. 2017

Dostel Makina San ve Tic A.S.
Kocaeli, Turkey

- Performed quality inspections on manufactured components.

EDUCATION

Gebze Technical University
Gebze, Turkey

Master of Science in Artificial Intelligence (Thesis, English)
Sep. 2025 – Expected Jun. 2027

Gebze Technical University
Gebze, Turkey

Bachelor of Science in Mathematics
Sep. 2018 – Jun. 2022

Türk Kızılay Kartal Anatolian High School
Istanbul, Turkey

High School Diploma, Mathematics & Science
Sep. 2013 – Jun. 2017

SKILLS

Core AI & GenAI: Machine Learning, Deep Learning, LLMs (LlamaIndex, LangChain), RAG, Prompt Engineering, Computer Vision (OCR), NLP, Time Series Analysis

Languages & Libraries: Python, SQL, PyTorch, TensorFlow, Pandas, NumPy, Scikit-Learn, OpenCV, HuggingFace Transformers, FastAPI

Cloud & MLOps: Azure (ML Studio), AWS, Docker, Kubernetes, Apache Airflow, MLflow, CI/CD (Jenkins), Vector Databases (Pinecone/Milvus)

Data & Analytics: PostgreSQL, NoSQL, ETL/ELT Pipelines, A/B Testing, RFM Analysis, Anomaly Detection

Soft Skills: Technical Leadership, Agile/Scrum, Problem Solving, Mentoring Junior Developers

CERTIFICATIONS

Apache Airflow Bootcamp & Certification - Udemy

Clean Code Architecture Certification - Udemy

Fundamentals of Business Analysis - BT Akademi

Fundamentals of DevOps - BT Akademi

Fundamentals of SQL - BT Akademi

Fundamentals of Deep Learning - Nvidia

Machine Learning Model Validation - BT Akademi

Model Deployment - BT Akademi

Fundamentals of Container Architecture & Kubernetes - BT Akademi

Machine Learning Winter School - Koc University & Is Bankasi

Mathematics for Machine Learning Program - Nesin Mathematics Village

VOLUNTEERING

Gebze Technical University Mathematics Club
Mar. 2022 – Aug. 2022

Chairman of The Board of Directors
Gebze Technical University

- Organized workshops, seminars, and networking events to increase student engagement.

IEEE Gebze Technical University Student Branch
Jun. 2021 – Jul. 2022

Financial Director of the Board
Gebze Technical University

- Managed the financial operations, ensuring efficient and transparent financial flow.

ACCOMPLISHMENTS

Third Place in Turkey, "Anlat Okulunu" Website Design Competition - IEEE METU Student Branch