

# VOLKAN ÇİÇEK

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## Experience

### Data Scientist

Jan. 2022 – Present

Logo Yazılım

Kocaeli, Türkiye

- Spearheaded the **Mariana** project, a **TÜBİTAK TEYDEB**-supported **AI**Ops initiative, developing AI-driven systems for anomaly detection and forecasting to proactively manage infrastructure performance and reduce downtime.
- Led **Generative AI** initiatives, including the design and implementation of intelligent chatbots, text-to-SQL engines, and **Retrieval-Augmented Generation (RAG)** projects to enhance user interactions.
- 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.
- 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 to monitor real-time video feeds, proactively detecting workplace safety risks before incidents occur.
- 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 cross-functional teams through the entire data lifecycle, from ideation to production deployment and monitoring.

### Junior Data Scientist

Jul. 2021 – Dec. 2021

Logo Yazılım

Kocaeli, Türkiye

- Contributed to the development of the OCR project, achieving significant improvements in processing Turkish characters, enhancing data accuracy and processing speed.
- Contributed to the **Polaris** project by managing the migration from Atlassian Documentation to **Logo DYS**. Focused on pre-processing data for the machine learning API and created Turkish question-answer pairs from these data. Assisted in deploying the AI model as an API, facilitating seamless integration.

### Information Technology Intern

Aug. 2020 – Sep. 2020

MediaMarkt Türkiye

Istanbul, Türkiye

- Worked on troubleshooting and resolving IT systems issues.
- Assisted in maintaining hardware and software systems.

### Quality Control Staff

Jun. 2017 – Sep. 2017

Dostel Makina San ve Tic A.S.

Kocaeli, Türkiye

- Performed quality inspections on manufactured components.

## Education

### Gebze Technical University

Gebze, Türkiye

Bachelor of Science in Mathematics

Sep. 2018 – Jun. 2022

### Türk Kızılay Kartal Anatolian High School

Istanbul, Türkiye

High School Diploma, Mathematics & Science

Sep. 2013 – Jun. 2017

## Skills

**AI & Machine Learning:** Deep Learning (CNNs, Transformers), NLP & LLMs (Generative AI, RAG, Chatbots, Text-to-SQL), Computer Vision (OCR), Time Series Forecasting (LSTMs)

**Data Engineering & MLOps:** Python, SQL, Apache Airflow, ETL/ELT, Docker, CI/CD (Jenkins, MLflow), Cloud Platforms (AWS, GCP, Azure), PyTorch, TensorFlow

**Advanced Analytics:** Customer Segmentation (RFM), Anomaly Detection, Forecasting, Predictive Modeling

**Leadership & Strategy:** Agile, Cross-Functional Collaboration, Stakeholder Engagement, Problem Solving

## Certifications

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Apache Airflow: The Hands-On Guide - Udemy  
Clean Code - Udemy  
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  
Temel Container Mimarisi ve Kubernetes - BT Akademi  
Yapay Öğrenme Kış Okulu - Koç Üniversitesi & Türkiye İş Bankası  
Yapay Öğrenme için Matematik Programı - Nesin Matematik Köyü

## Volunteering

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### 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

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