

Ömer Sarımeşe

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EDUCATION

Data Science and Artificial Intelligence (M.Sc.)

Boğaziçi University · Bebek, İstanbul · 2023 - Present

- Thesis: Semi-Supervised Learning for Breast Tumor Classification Using Pseudo-Labeling and Multimodal Fusion

Electronic Engineering (B.Sc.)

Gebze Technical University · Gebze, Kocaeli · 2018 - 2023 · GPA: 3.31

- Full-merit YÖK scholarship, renewed annually for five consecutive years, awarded for enrolling as the top-ranked student.

EXPERIENCE

Business Analyst

Ender Mağazaları – Head Office (Retail)

June 2025 - Present, Beyoğlu, İstanbul

- Generated **₺25M incremental sales within three months** by implementing **ML-based customer segmentation** and targeted action plans.
- Designed and automated **executive and operational dashboards**, reducing manual reporting effort.
- Built and monitored **KPI frameworks** for stores, regions, and sales teams, improving **performance visibility and decision-making**.
- Conducted **CRM analytics** including customer segmentation, campaign performance analysis, and churn indicators, increasing campaign effectiveness by **15%**.
- Performed **collections (tahsilat) analysis**, identifying high-risk accounts and process bottlenecks, contributing to a **10% improvement in collection efficiency**.
- Supported **retail product planning** through sales trend, stock turnover, and sell-through analysis, reducing excess inventory by **12%**.

Backend Developer

Hamurlabs

September 2022 - July 2023, Esenler, İstanbul

- Architected RESTful API endpoints in Django, optimizing JSON payload handling to reduce response times by **30%** and server CPU load by **20%**.
- Developed dynamic web features in Python/Django and PHP/Laravel, driving a **15%** uplift in user satisfaction scores.
- Integrated PyTorch model endpoints behind Flask microservices; containerized with Docker, accelerating deployment cycles by **50%**.
- Automated end-to-end ETL pipelines in Python, boosting data throughput by **12%** for downstream analytics dashboards in Tableau.
- Tuned and refactored complex SQL queries and database schemas, improving data handling efficiency by **12%** and overall system responsiveness.
- Collaborated within Agile SCRUM sprints; increased code coverage to **85%** through Test-Driven Development and peer code reviews.

Network technician (Intern)

ICT Telecommunication

August 2022 - September 2022, Şişli, İstanbul

- Configured and maintained CCNA-grade routers and switches for a satellite ground-station network, reducing packet-loss events by **15%**.
- Automated device health checks with Python scripts, cutting manual monitoring time by **40%**.
- Led firmware patch rollouts across 15+ network nodes, boosting uptime to **99.8%**.

Embedded systems software developer (Intern)

Profen Communication Technologies

June 2022 - August 2022, Şişli, İstanbul

- Engineered FreeRTOS firmware on STM32 microcontrollers, achieving deterministic task scheduling within **1ms** jitter.
- Designed and tested bi-directional data pipelines over UART, I²C, SPI, and CANbus, ensuring **100%** protocol compliance.
- Integrated an MQTT broker and lightweight HTTP server, enabling real-time telemetry with under **50 ms** latency.
- Streamlined debugging workflows using logic analyzers and oscilloscopes, halving time-to-resolution for hardware faults.

Network configurator (Intern)

Telco İletişim Teknolojileri

February 2022 - April 2022, Ataşehir, İstanbul

- Assisted in CMTS/DOCSIS broadband provisioning for **1,000+** residential modems, maintaining service SLAs at **99.5%**.
- Conducted routine OS and hardware maintenance on end-user PCs, improving workstation availability by **20%**.
- Developed standardized configuration templates, reducing setup errors.
- Documented network topologies and CCNA procedures, contributing to a 30-page operations manual.

SKILLS

Programming & Scripting

Python (Django, PyTorch, TensorFlow), PHP (Laravel), SQL, C, Assembly, MATLAB

Data Engineering & Analytics

Apache Hadoop, Spark, Kafka, ETL Processing, Data Visualization (Power BI), Microsoft Excel (Advanced)

Machine Learning & AI

Machine Learning, Computer Vision, ML Model Deployment, NVIDIA TensorRT, NVIDIA Triton Inference Server

Databases

MySQL, MongoDB

Automation & Tools

Docker, Git, n8n Automation

Embedded & Hardware (Additional)

PLC Languages, VHDL, Verilog, EasyEDA, LTspice, Altium
