Ahmed Yazıcı

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EDUCATION

MEF University (100% Scholarship) 09.2021 – Present
B.Sc. in Industrial Engineering Istanbul, Türkiye

EXPERIENCE

NAOS (Bioderma, Etat Pur, Institut Esthederm) 04.2026 – Present
Data Analyst Intern Istanbul, Türkiye

- Built an end-to-end Python pipeline that ingests raw product reviews and questions, structures and classifies feedback, and generates standardized product reports across products and reporting periods.
- Applied statistical analysis to quantify category prevalence, sentiment, recurring themes, and product-level patterns; validated and enriched findings with Userdot output.
- Used SQL to extract, join, aggregate, clean, and validate CRM and e-commerce data; automated repeatable analysis-to-report workflows in Python.
- Supported CRM customer segmentation by structuring customer records and analyzing actionable customer groups for marketing.

Bluesense 12.2025 – 01.2026
AI Engineer Intern Remote · Boston, MA

- Built end-to-end computer-vision pipelines for UV facial-damage segmentation using Attention U-Net, YOLOv8-Seg, and fine-tuned SAM; achieved 0.93 mask mAP50, 0.77 IoU, and 0.88 F1 on the test set.
- Developed a two-stage skin-tone baseline and skin-region brightness score to reduce sensitivity to environmental lighting and background variation.
- Productionized inference as FastAPI REST endpoints for integration into the mobile application.

GUARAZ 10.2024 – Present
Data Analyst (Self-Employed) Istanbul, Türkiye

- Built and maintained a SQL database and daily ETL workflow that consolidates multi-marketplace e-commerce data for repeatable operations and reporting.
- Analyzed sales, inventory, and lead-time data across four product groups; improved replenishment and production timing, reducing stockouts by 29%.
- Created SQL analyses and Power BI dashboards for product performance, inventory, sales trends, and advertising efficiency.

Şato Ayakkabı ve Deri San. 08.2025 – 09.2025
Production Engineering Intern Kestel, Bursa

- Collected shop-floor data across a 20-step shoe production flow, identifying sewing and mold-implementation bottlenecks.
- Built a SimPy discrete-event model; labor and mold scenarios increased expected throughput by 7.1%.

PROJECTS

Customer Value & Retention Intelligence | **GitHub Links**

- Built a customer-intelligence pipeline on 1.07M UCI Online Retail II rows, retaining 788K modeled merchandise-sale lines and creating 24,866 time-based customer snapshots.
- Compared sequence, tree, statistical, and baseline models for 90-day inactivity and revenue forecasting; weekly LSTM reached 0.819 AP and 90.6% P@10, while enriched XGBoost achieved GBP 362.57 retrospective 90-day MAE. Combined calibrated risk, expected revenue, and PCA/K-Means segments in a Streamlit retention review for 5,224 customers.

Skincare AI: Recommendations, RAG & Sentiment Classification | **GitHub Links**

- Built a Turkish skincare assistant with review-based product recommendations, hybrid BM25/E5 retrieval, and local Qwen 4B RAG answers with citations and original source quotations.
- Fine-tuned mDeBERTa-v3-base with LoRA for sentiment and 10 topics; achieved 88.18% accuracy (macro F1 0.7935), versus 83.01% for TF-IDF, and released inference weights with a Streamlit application.

Personalized Grocery Recommendation Engine | **GitHub Links**

- Built a two-stage recommender on 3.21M prior orders, 32.43M purchase rows, and 49,688 products: Stage 1 uses a 22-feature XGBoost model for repeat-purchase prediction; Stage 2 retrieves unseen products from similar customers, co-basket relationships, and popularity, then ranks them with a separate XGBoost model.
- Combined both stages into one repeat-first recommendation output; displayed repeat suggestions reached 63.92% precision on 19,682 test customers.

Heart Disease Prediction | **GitHub Links**

- Compared logistic regression, random forest, and XGBoost on 918 distinct UCI records using fold-safe imputation and nested cross-validation; selected forest reached mean outer F2 0.855 and 0.902 recall on the 184-row development holdout, with 10 false negatives and 18 false positives.

Scheduling & Simulation Validation for Multi-Stage Production | **GitHub Links**

- Built a flexible assembly job-shop framework with OR-Tools CP-SAT and six scheduling heuristics, then replayed schedules in SimPy; a 35-machine, 32-job, 200-operation deterministic test had zero mismatches, and 100 stochastic replications modeled failures, processing variability, transport, and calendars.

Balta Limanı Hospital Patient-Flow Simulation | **GitHub Links**

- Modeled the real orthopedic outpatient workflow from collected operational data with 7 doctors, 2 X-ray resources, consultant registration, scheduled and walk-in arrivals, and referral routing; the seeded run generated and completed all 448 patients, including 341 X-ray referrals.

MTG Mana Value Prediction | **GitHub Links**

- Benchmarked XGBoost, CatBoost, and two PyTorch MLP pipelines on 93,452 eligible card rows with a card-name-grouped split; CatBoost reached 82.86% within-one accuracy on 9,491 held-out rows, while the expanded MLP achieved 0.753 expected-value MAE.

E-Commerce Database Design | **GitHub Links**

- Designed a normalized MySQL e-commerce schema spanning ordering through returns, enforced PK/FK integrity, and automated workflows with 20 triggers and five stored procedures; added 10 scenario queries for operational KPIs.

SKILLS

Programming and Tools: Python (pandas, NumPy, scikit-learn, XGBoost, PyTorch, TensorFlow, SimPy, Streamlit, FastAPI, PuLP, Google OR-Tools), Java, SQL, MySQL, Power BI, SAP S/4HANA, MS Office, Minitab, Git/GitHub
Technical Skills: Data Analysis, Machine Learning, Convolutional Neural Networks, Deep Learning, Linear Programming, Integer Programming, Combinatorial Optimization, Mathematical Modeling, Optimization, Simulation, ETL, Data Modeling
Languages: Turkish (Native), English (Advanced)