

Alper Ozarlan

+90 538 061 97 10 | ozalpslan@gmail.com | Istanbul/Fatih, Turkiye
Personal Website | GitHub | LinkedIn
AI/ML | Cloud | DevOps

EXPERIENCE

AI Engineer (Part-time)

Mar. 2026 – Present

Justech | ITU Teknokent

Istanbul, Turkiye

- Built a production-grade electricity price forecasting system for **Borusan** using time-series ML, advanced feature engineering, and **Airflow** orchestration.
- Improved forecasting reliability through leakage-resistant validation, **walk-forward evaluation**, and strict temporal constraints aligned with real-world deployment conditions.
- Strengthened model performance with **residual learning** and time-aware modeling strategies for more stable production-oriented predictions.
- Built **Dockerized** ingestion, preprocessing, feature engineering, and inference pipelines running on Linux-based VM environments, with exposure to **Kafka**, **Spark**, and **Flink**-based data workflows.
- Worked across the full stack with **Next.js** and **C#**-based backend services, integrating forecasting outputs into product-facing workflows and internal tools.
- Implemented frontend pages from graphic designer handoffs, translating approved UI designs into responsive web interfaces aligned with the existing product structure.

AI Engineer Volunteer Intern

Oct. 2025 – Jan. 2026

Kedy.ai

Remote

- Optimized XTTS-based speech pipelines to improve inference efficiency and output quality in voice generation workflows.
- Built Docker- and CUDA-based experimentation environments for reproducible GPU-accelerated model testing and dubbing pipelines.

Intern

Jul. 2024 – Aug. 2024

QNB Finansbank

Istanbul, Turkiye

- Supported branch operations in a high-volume banking environment and completed internal backend-oriented training.

Legal Consultancy Information Intern

Jun. 2024 – Jul. 2024

Istanbul Municipality

Istanbul, Turkiye

- Resolved 25+ weekly hardware and software issues for legal department staff, improving operational continuity.

Denizasiri Intern

Feb. 2024 – Mar. 2024

Denizbank

Remote

- Completed structured training in data science and AI fundamentals with emphasis on financial-sector use cases.

PROJECTS

Selected Datathons (2024–2025)

- **ING Bank Datathon (2025)**: Built a stacking ensemble with **LightGBM**, **CatBoost**, and **XGBoost**, combining behavioral and time-series features to reach **0.7501 OOF AUC**.
- **OBSS Datathon (2024)**: Developed a Turkish-English mixed speech transcription workflow with **LLM** processing, BART summarization, and Drive-based automation.
- **ITU Deep Learning Datathon (2024)**: Applied **CNNs** and transfer learning with **PyTorch** on a multi-city image dataset in a collaborative Git workflow.
- **YTU ML Datathon (2024)**: Built a predictive maintenance pipeline with **XGBoost**, data cleaning, and feature engineering on real factory data.

AI-Powered Algorithmic Trading Bot (2026)

- Built an automated trading engine for stocks and crypto using **XGBoost**, **CatBoost**, and **LightGBM** to generate higher-confidence signals.
- Added a backtesting framework with **ATR-based risk management** and market-regime filtering for more realistic strategy evaluation.

Traffic Risk Prediction Pipeline (2025)

- Built a machine learning pipeline to predict traffic accident risk from road, traffic, and environmental variables.

Computer Vision Detection Pipeline (2025)

- Built an OpenCV pipeline using Gaussian blur, HSV masking, and Hough Circle Transform for circle detection and controlled-visualization tasks.

Podcast Listening Time Prediction (2025)

- Preprocessed structured data with one-hot encoding, median imputation, and RobustScaler, then trained **XGBoost** with **SHAP**-based interpretation.

WireGuard VPN on Oracle Cloud Infrastructure (2025)

- Designed and deployed a self-hosted **WireGuard VPN** on **Oracle Cloud Infrastructure** with secure routing, NAT, and firewall configuration.

EDUCATION

Istanbul University

B.Sc. in Computer Science, GPA: 3.33/4.00

2023 – Present

Istanbul, Turkiye

- Recipient of the Turkish Education Foundation (TEV) Scholarship, 2024–2028.
- Completed the AI Program at Yapay Zeka ve Teknoloji Akademisi under Yuksek Ogretim Kurulu (YOK), 2025.

SKILLS

Programming: Python, JavaScript, TypeScript, C#, Java, SQL

ML/AI: PyTorch, TensorFlow, Scikit-Learn, XGBoost, LightGBM, CatBoost, Hugging Face, YOLO, OpenCV, Pandas, NumPy, Optuna, SHAP, MLflow

AI Tools: GitHub Copilot, Claude, Codex, Cursor

Backend/Data: FastAPI, .NET Core, ASP.NET Core, Node.js, React, Next.js, REST APIs, PostgreSQL, MySQL, SQLite, ETL/ELT

Cloud/DevOps: AWS, Oracle Cloud Infrastructure, Docker, Linux, Git, GitHub Actions, Airflow, Kafka, Spark, Flink, ZeroTier, VM-based deployments

Languages: Turkish (Native), English (B2), German (A1)

CERTIFICATES

AWS Certified Cloud Practitioner (2025)

- Validated foundational AWS knowledge across compute, storage, networking, IAM, monitoring, and cloud architecture.

DataCamp AI Engineer for Data Scientists Associate (2025)

- Covered data preparation, modeling, evaluation, ETL/ELT workflows, and AI engineering fundamentals.

Huawei Cloud Essentials (2025)

- Completed cloud fundamentals training with hands-on platform exposure.

REFERENCES

Cetin Saglam

Branch Manager, QNB Finansbank

- LinkedIn | More information will be provided upon request.

Utku Bulkan

Founder, kedy.ai

- LinkedIn | More information will be provided upon request.