

ALPER OZARSLAN

Cloud | DevOps | AI

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EDUCATION

Computer Science 3rd Year Student : 3.33

Istanbul University, Istanbul/Turkiye

Turkish Education Foundation Scholarship

(TEV)

Istanbul/Turkiye - 2024 - 2028

Yapay Zeka Ve Teknoloji Akademisi, AI

Yuksekk Ogretim Kurulu(YÖK) - 2025

WORKING EXPERIENCES

AI Engineer (Part-time) – Justech | ITU Teknokent

03/2026 - Current

- Developed a production-grade **electricity price forecasting (PTF)** system for **Borsan** using **time-series ML** and advanced **feature engineering and Airflow**
- Designed a **leakage-free** pipeline with walk-forward validation, holdout isolation, and strict temporal constraints
- Built and optimized XGBoost-based models** with residual learning, achieving **~233 MAE (CV) / ~0.72 R²**
- Implemented **time-aware validation** (walk-forward + gap) and recency weighting for robust real-world performance
- Developed **Airflow-based (Dockerized)** data pipelines for automated daily ingestion and feature consistency at prediction time
- Gained exposure to **fraud detection** systems (**VakifBank**) and agentic AI-based decision workflows

INTERNSHIPS

AI Engineer Volunteer Intern | Kedy.ai

10/2025 - 01/2026

- Optimized XTTS models to improve voice analysis accuracy and inference speed.
- Deployed Docker and CUDA pipelines for GPU-accelerated voice model experiments.
- Engineered end-to-end AI dubbing and voice cloning pipelines.

QNB Finansbank Intern

07/2024 - 08/2024

- Supported daily branch operations and financial workflows.
- Completed internal C# and backend web architecture training.

Istanbul Municipality Legal Consultancy Information Internship

06/2024 - 07/2024

- Assisted legal department staff by troubleshooting computer issues.
- Resolved 25+ hardware and software issues weekly for legal staff.

Denizbank Denizasiri Intern

02/2024 - 03/2024

- Completed online training on Data Science and AI fundamentals.

PROJECTS

Datathons (2024–2025)

- **ING Bank Datathon (2025):** Stacking ensemble (LightGBM, CatBoost, XGBoost), Optuna tuning, behavioral & time-series features — 0.7501 OOF AUC.
- **Voice Transcription System (2024):** Turkish–English mixed speech transcription with LLMs, BART-based summarization, Google Drive automation.
- **ITU Deep Learning Datathon (2024):** CNN & transfer learning with PyTorch on multi-city image dataset, GitHub collaboration.
- **YTU ML Datathon (2024):** Predictive maintenance with XGBoost, data cleaning & feature engineering on real factory data.

AI-Powered Algorithmic Trading Bot - 2026

- An automated trading engine for stocks and crypto using Ensemble ML (XGBoost, CatBoost, LightGBM) to generate high-probability signals. Features a realistic backtesting simulator with ATR-based risk management and market regime filtering to optimize strategy performance.

Schema Agent Microservice - 2026

- Built a personal portfolio website using React, JavaScript, client-side routing, FastAPI, and Python. Hosted on AWS EC2. Later rebuilt and deployed using Next.js on Vercel.

Car Risk Analyzing Machine Learning Project - 2025

- Machine learning pipeline to predict traffic accident risk using road, traffic, and environmental features, including data preprocessing, feature engineering, model training, and performance evaluation.

CVR Hafriyat Website ([Link](#)) - 2025

- Automated FastAPI service delivering JSON schemas via REST endpoints with validation and error handling.
- Configurable, robust, and ideal for schema-driven systems.

Selçuk Bayraktar T3 Vakfı Computer Vision Workshop - 2025

- Developed a computer vision pipeline using OpenCV with Gaussian blurring, HSV-based color masking, and Hough Circle Transform for circle detection and visualization.

Predict Podcast Listening Time - 2025

- Performed preprocessing (one-hot encoding, median imputation, scaling with RobustScaler). Trained XGBoost Regressor. Tuned hyperparameters with RandomizedSearchCV using R^2 scoring. Clipped negative predictions and used SHAP for feature explanation.

My VPN Server on Oracle Cloud (OCI) - 2025

- Designed and deployed a self-hosted WireGuard VPN on Oracle Cloud Infrastructure (OCI), managing secure routing, NAT, and firewall configurations.

CERTIFICATES

AWS Certified Cloud Practitioner (2025) – EC2, S3, RDS, Lambda, VPC, IAM, CloudWatch, DynamoDB; cloud design, deployment, security, monitoring, automation, cost optimization.

DataCamp AI Engineer for Data Scientists Associate (2025) – Data prep, modeling, metrics, MLOps/LLMOps basics, ETL/ELT, generative AI prototyping.

Huawei Cloud Essentials (2025) – Used hands-on Huawei cloud platform.

Angela Yu Full-Stack Bootcamp (2025) – Full-Stack Web Development Bootcamp (2025) – React, Node.js, Express.js, PostgreSQL/MongoDB, HTML/CSS/JS, APIs, Git/GitHub.

BilgeAdam Advanced Excel (2025) – Formulas, modeling, macros, data analysis.

Akbank Python Bootcamp (2024) – OOP, data structures, algorithms, file handling, modular coding.