

Taylan Özveren

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SUMMARY

Final-year, full-scholarship Computer Science (Information Systems & Technologies) student (GPA 3.77/4.00) with professional experience as a **Data & AI Solution Specialist** at Nephos AI (Microsoft Partner). Specialized in **machine learning, deep learning, and cloud-based AI solutions**, delivering forecasting dashboards, e-commerce analytics pipelines, and AI-driven schedulers. Skilled in designing and deploying **AI architectures on cloud**, and experienced in leading teams and organizing large-scale university events. Ready to create fast, measurable impact in **data, AI, and software roles**.

EDUCATION

Yeditepe University, Faculty of Computer Science

B.Sc., Information Systems and Technologies (GPA 3.77/4.00, Full Scholarship)

Coursework: Data Mining, Machine Learning, Deep Learning, Cloud, Software, Database Systems, Structures & Algorithms.

Istanbul, Turkey

Sep 2021 – Jun 2026 (expected graduate)

Adana Gündoğdu College Science High School

Science High School Diploma (GPA 96.4/100, Full Scholarship)

Adana, Turkey

Sep 2016 – Jun 2020

EXPERIENCE

AI Application Solution Engineer, Nephos AI (Microsoft Partner), Istanbul/Beykoz

Sep 2025 – Present

Engineering and deploying AI solutions on Microsoft Azure Cloud, focusing on large-scale data pipelines, machine learning, and generative AI services. Contributing to AI architecture design and end-to-end implementation of enterprise projects, including model training, evaluation, and cloud deployment. Collaborating with cross-functional teams to integrate Azure AI Services into production environments, delivering scalable and secure AI-driven applications.

Data Engineer Intern (Compulsory Internship), Damalink, Istanbul/Ataşehir

Jul 2025 – Sep 2025

Currently designing and operating real-time ETL/ELT pipelines with Informatica IDMC, streaming PostgreSQL data into Azure Data Lake; building star-schema models, implementing data-quality rules, optimizing SQL, and orchestrating pipelines end-to-end.

Search Relevance Evaluator (via GiniTalent), Yandex

Sep 2024 – Jan 2025

Assessed query–result relevance and page quality per detailed guidelines; produced structured annotations (intent coverage, authority, spam) and ranking/UX recommendations. (Remote)

Data Analyst Intern, Metric Software Consulting, (Istanbul, Ataşehir)

Jul 2023 – Aug 2023

Contributed to the PepsiCo BI Sustain team in a voluntary capacity; supported dashboard creation and query optimization using advanced SQL and SAP Data Services, assisting in generating insights for sales performance and strategic tracking.

SELECTED PROJECTS

(GitHub Portfolio: <https://github.com/TaylanOzveren>)

- **AI & Data Science --- Cloud-Deployed Crypto Forecasting Platform (ML & DL Based):**

Built an end-to-end Machine Learning & Deep Learning pipeline for BTC/ETH direction forecasting (**LightGBM classifier + multi-task LSTM**), validated with **walk-forward** evaluation and explained with **SHAP**. Cloud-Deployed with a live Streamlit dashboard and scheduled model refresh; roadmap includes; an LLM-powered chatbot interface.

- **Customer Analytics & Data Mining for E-Commerce (Data Mining & Machine Learning):**

Delivered customer segmentation, personalized recommendations, and seasonality-aware demand insights for CRM and

inventory planning via **RFM + PCA-K-means** clustering, hybrid recommenders (CF + content-based, cosine), CLV/LoyaltyScore features, AOV forecasting (**XGBoost, GridSearchCV**), and Prophet-based seasonality dashboards.

- **CPU Scheduling Optimization – AI Enhanced (Reinforcement Learning & Genetic Algorithms):**
Designed a hybrid scheduler merging classic algorithms with single- & multi-objective GA and Q-Learning to minimize waiting / turnaround time. Implemented performance logging (CSV), visualized results via **Gantt charts**, and provided consistent execution across environments through **Docker containerization**.
- **LearnSphere – Social Learning Platform (Django, LLM, HTMX)**
Developed a modern, collaborative social learning platform featuring Google OAuth integration, interactive user profiles, real-time post interactions (likes/comments), and intuitive course management with responsive UI. Integrated **LLM-based** text summarization features for shared resources; deployed live with Django, HTMX, and Bootstrap.

LEADERSHIP & ACTIVITIES

- **Organization Leader, Finance & Economics Club, Yeditepe Univ.** **Sep 2023 – Jun 2024**
Organized “Economy & Finance Summit 2024”; managed budgets & sponsorships; coordinated 30+ volunteers (Board Member).
- **Microsoft Azure Engineering Program — Nephos AI & Systems** **Mar 2025 – Aug 2025**
Completed end-to-end Azure engineering curriculum in Administration, Data, AI/ML, DevOps, and Analytics, earning the Microsoft Certified Azure AI Engineer Associate credential.
- **IBM Data Science Professional Certificate** **Jul 2024 – Dec 2024**
Completed 12-course program covering Python, SQL, statistics, ML algorithms, data visualization, data science.
- **Data Science & AI Summer School, Coder Space** **Aug 2024 – Sep 2024**
Five-week intensive training in machine learning & deep learning through industry projects (+ company visits for real-world).
- **AI Agents Course — Hugging Face** **Feb 2025 – May 2025**
Studying lightweight agent systems (smolagents), LlamaIndex data management, and LangGraph workflows. Implemented multi-step reasoning agents with tool and memory integration using local LLMs.

SKILLS & INTERESTS

Technical: Python, SQL, Java (OOP), C++, C, Linux, Kotlin, JavaScript, HTML/CSS, Operating Systems, Django (Full-Stack).

Tools: Git, SAP Data Service, scikit-learn, TensorFlow, Power BI, other Python libraries, Azure Services, Docker, Informatica.

Languages: English (B2), German (A2).

Interests: Artificial Intelligence, Cloud Computing, Quantum Physics, Algorithmic Trading, FinTech, Statistics.