Yusuf Can Ekin

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Education

Bogazici University — **Sep 2022 – June 2027 (Expected)**
Bachelor of Science in **Computer Engineering** — Current GPA: 3.9 / 4
Minor in Management — Current GPA: 4 / 4

Experience

Midas — **July 2025 – Present**
Data Engineering Internship

- Completed a three-month summer internship and extended for part-time work during the academic year.
- Built a daily **Instant Cash** forecasting pipeline for our brokerage product that advances T+2 settlements for a commission; at **15:00** each day the system ingests fresh data, **re-trains a Prophet model**, and publishes a demand forecast.
- Achieved **6% MAPE** in production; forecasts are used by **CashOps** to take loans in the exact amounts predicted by the model and allocate liquidity, preventing over reserving while maintaining customer availability.
- Evaluated **time-series, linear, and neural** approaches and applied **feature selection**. Established post deployment monitoring for drift and performance.
- Deployed an **LLM proxy server** in Kubernetes and integrated it with customer-facing services; ensured availability with **load testing**, **KEDA** scaling, and observability (**OpenTelemetry**, **Prometheus**).
- Built **Airflow DAGs** for recurring workflows, including website crawling and integrations with **AWS S3** and **Redshift**.

Bogazici University Artificial Learning Lab — **June 2025 – Present**
Undergraduate Researcher

- Conducting research on **Mild Cognitive Impairment (MCI) and Dementia**, focusing on predictive modeling of patient health trajectories using longitudinal visit data under the supervision of **Assoc. Prof. İnci M. Baytaş**.
- Developing models to predict **future timestamps and progression patterns** in patient trajectories, analyzing latent space movements and progression using methods such as **PCA**.
- Performing **data preprocessing, feature selection**, **classifier design**, and hyperparameter tuning.
- Ongoing work aims toward a **publication**, evaluating new datasets and extending the current architecture.

Is Bankasi via Softtech — **July 2024 – Oct 2024**
Software Engineering Internship

- Contributed to the development of **multi-agent AI-powered web applications** using **Python, LangChain, and FastAPI** to enhance system capabilities.
- Developed **APIs** for the application, managed the **MSSQL database** using **SQLAlchemy**, and maintained **MinIO cloud storage** for various data operations.

Skills

Strong in **Python** (problem solving, algorithms, ML workflows) and **Java** (OOP, custom data structures); confident in **SQL** with experience in **MSSQL** and **Redshift**. Proficient in **time series forecasting, neural networks, autoencoders, recurrent neural networks (RNN, LSTM, GRU)**, and methods such as **PCA** and **feature selection**. Experienced with **Docker**, **C/C++**, **Airflow**, and practical deployments on **AWS**. Familiar with **FastAPI**, **LangChain**, and **Kubernetes**.

Honors and Awards

- Ranked 18th among over 3 million participants in National University Entrance Exam (YKS).
- Third Place in TUBITAK 50th High School Students Research Projects Contest Final Event.
- Third Place in TUBITAK 12th Secondary School Students Research Projects Contest District Exhibition.

Extracurricular Activities

- Founded an educational consultancy to support students preparing for the university entrance exam.
- Played volleyball at Kocaeli Kagitspor Volleyball Team, played korfball at Kocaeli Science High School Team.
- Selected for BİLSEM (8 year gifted education program) through national assessment; completed advanced enrichment in science and project based research
- Provided educational consultancy voluntarily to those who were victims of the Kahramanmaras earthquakes and were preparing for the university entrance exam.