ÖYKÜ EYLÜL BOZDAĞ

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Education
- AI Engineering, Bahçeşehir University (2021-2023)
- Computer Engineering, Çankaya University (2023-Present)

Certifiations
- Machine Learning, Data Visualization, Geospatial Analysis, Pandas Certification (2023) (kaggle.com)
- SQL, Python Certificate (2023) (hackerrank.com)

Computer Skills
- Python (advanced)
- C++ (intermediate)
- C (intermediate)
- R (beginner)
- AI, Data Science (pandas, sklearn)
- Assembly (beginner)

Languages
- English (C1)
- German (C1)
- Spanish (A2)
- Italian (A1)

Social Activities
- Board member of Literature Club in Bahçeşehir University (2021-2023)
- Board member of Computer Engineering Society in Çankaya University (2023-2024)
- 3 years of experience in theatre

A computer and a former artificial intelligence student, passionate about learning and creating. Looking to get experience in the industry. Solution focused character who can contribute positively in a creative manner whether working in a team or independently.

Experience

Internship, SIMSOFT; ANKARA - Aug 2024 — Sep 2024

I worked on 2 key projects: object detection and multiplayer game development. I used YOLO to detect vehicles, pedestrians, etc., and trained a model with a dataset and tested it on real videos. The games involved developing Tic-Tac-Toe and Connect Four using Pyhon, PyQt, and peer-to-peer communication. I designed the UI, implemented the games and enabled real-time play between computers.

Survival Prediction Based on Titanic Dataset, Bahçeşehir University

I worked on a project using the Titanic dataset to predict passenger survival, analyzing attributes like age, fare and gender. I conducted data preprocessing, visualizations and statistical tests. The analysis showed that gender notably impacts survival.

Cancer Prediction Based on Visual Aid Project, Bahçeşehir University

I conducted a study on stroke prediction, where I analyzed a dataset and developed a logistic regression model. I worked on data preprocessing, and trained the model using grid search with cross-validation, using tools like Seaborn and Matplotlib.

Data Mining Project, Çankaya University

I have completed a data mining project. I have taken all the steps to prepare a dataset for the analysis, cleaned it, filled in missing data and removed non-related attributes. I wrote the code in Python using libraries like Pandas. I tested all attribute combinations using 10+ classification algorithms like Random Forest and neural network.

Big Data (Live-Updating F1 Drivers and Race Prediction System)

I developed a real-time data analytics pipeline for Formula1, integrating FastF1, MongoDB, Python (Pandas, NumPy, Scikit-learn) and Streamlit. It automatically collects race data, recalculates performance metrics and predicts race outcomes. I designed a architecture that supports live updates, dashboards and predictive analytics.

Türksat Model Satellite Competition, Çankaya University

As a member of our university's team in the TÜRKSAT Model Satellite Competiton (Category 1), contributed to the software development. My responsibilities included implementing real-time telemetry data transmission, developing the ground station interface for live data visualization and enabling the multi-spectral mechanical filtering.

Publications & Academic Work

Publicly Available Datasets for Smart and Precision Agriculture: A Systematic Review

Öykü Eylül Bozdağ, Mustafa Berk Keskin, Hatice Elif Arabacı, Arda Kahraman

IISEC 2026 (International Informatics and Software Engineering Conference)- Accepted & Presented

Presented findings at an international conference and engaged in academic Q&A

References

Selen Başak, Senior Software Engineer, SIMSOFT; +90 553 256 52 52