



BAHAR AKBAŞ



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baharakbas.com

SUMMARY

Analytical and adaptable Computer Science student with a strong interest in Artificial Intelligence, data-driven technologies, and software development. Highly motivated to learn and apply innovative, efficient, and ethical AI solutions to real-world problems. Known for curiosity, quick adaptability, and a strong commitment to continuous learning and improvement in dynamic environments.

EDUCATION

Sabancı University *B.S. in Computer Science and Engineering* (Sept 2021 – Jan 2027) Istanbul, Turkey

Universität zu Lübeck, Erasmus Exchange Program, Computer Science (Apr 2024 – Aug 2024) Lübeck, Germany

Erzincan Science High School, *High School Diploma* (Sept 2016 – June 2020) Erzincan, Turkey

EXPERIENCE: Data Science Intern at RNV.ai (June 2025-September 2025)

Developed a machine learning-based price optimization simulator for the fashion retail sector. Conducted data preprocessing, elasticity analysis, and demand forecasting; visualized insights to support data-driven pricing decisions.

PROJECTS

PromptRefiner (2026) — Python, FastAPI, LangGraph, AWS Bedrock, React: Developed a multi-LLM system that evaluates, optimizes, and compares prompts across different language models.

Word Sense Plausibility Prediction (2026) — Python, PyTorch, BERT, RoBERTa, Hugging Face: Developed NLP models to predict the plausibility of ambiguous word meanings using cross-encoder, bi-encoder, and gloss-enrichment approaches.

Smart Study Room Reservation System (2026) — AWS Lambda, API Gateway, DynamoDB, Cognito, S3, CloudWatch: Developed a cloud-based room reservation system with secure user authentication, real-time availability, automated reservation expiration, monitoring, and serverless backend services.

Retail Price Optimization Simulator (2025) — Python, Streamlit, ElasticNet, XGBoost
Built a tool to predict demand and recommend optimal prices using AI-based forecasting models.

3D Tensor Sub-Tensor Sum Analyzer (2026) — C++, Data Structures, Prefix Sum: Developed an algorithm to process three-dimensional tensor data and efficiently count sub-tensors whose values match a target sum.

Hotel Room Management Database System (2026): Built a web-based database application using PHP, MySQL, and MongoDB, featuring trigger and stored procedure integration, guest/stay management, and an admin-supported ticketing system.

Trifty E-Commerce Platform (2025) — Spring Boot, Java, MongoDB, HTML/CSS, JavaScript: Developed a full-stack e-commerce platform with product management, authentication, shopping cart, order tracking, and payment features.

EventDrop (2025) — MySQL, SQL : Designed a database system to organize and aimed to improve data accessibility and coordination.

WhatSUP (2025) — Flutter, Dart, Firebase, Figma
Created a mobile application that aimed to simplify event discovery and increase student engagement.

MySocialStatics (2024) — Python, Pandas, Scikit-learn
Designed a tool to study social media engagement and detect interaction trends.

LANGUAGES

Turkish: First Language, **English:** Proficient,

German : Beginner

Programming: Python, Java, C++, SQL, JavaScript, Dart

Frameworks & Tools: Spring Boot, Flutter, Streamlit, Figma, Git **Databases:** MySQL, MongoDB, Firebase

ACTIVITIES and VOLUNTEER WORK

IEEE – Women in Engineering (2022–2024): Served as Board Member and Vice President of the Sabancı University Engineering Club

Civil Involvement Projects (2022): Volunteered in community service initiatives focused on environmental cleanup and primary education support