Buğrahan Bilgin *Computer Engineer*

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Profile

A motivated professional combining a strong foundation in software development with a deep interest and proficiency in data analytics and machine learning. I focus on bringing innovative solutions to complex problems through data-driven approaches and transforming theoretical knowledge into practical, scalable applications. My goal is to continuously develop my skills by closely following technological advancements and to deliver value added projects as part of a dynamic team.

Education

2020 – 2024
İstanbul

Bachelor's Degree
Bahçeşehir University
Enhanced both technical and collaborative skills via project-based work and research centered on programming, artificial intelligence, machine learning, and data analytics.

Professional Experience

02/2025 – 06/2025
İstanbul

Turkuaz Yazılım | Nebim Yazılım Gold Partner
AI Developer / Intern
At Turkuaz Yazılım, I developed a database-integrated, LLM-based chatbot project that enhanced internal process efficiency by directly generating SQL queries. My responsibilities also included learning and developing the interface of Nebim ERP software and contributing to mobile application development using Expo Go.

09/2024 – 11/2024
İstanbul

Bellcom Bilgisayar
ERP Consultant / Intern
At Bellcom, I worked on the development and optimization of the DIA ERP software. I improved my technical and problem-solving skills by providing in-person software support at our clients' offices. I also attended numerous industry exhibitions to meet with potential firms needing software support and contribute to business development.

08/2023 – 09/2023
İstanbul

Esan Eczacıbaşı Endüstriyel Hammaddeler San. ve Tic. A.Ş.
Software Developer / Intern
During my internship, I developed web applications using ASP.NET Core MVC and Spring Boot. In my projects, I focused on topics such as CRUD operations, database integration, and secure programming, utilizing Entity Framework Core.

Skills

- Python
- Data Analysis (Pandas, NumPy, Matplotlib, Seaborn)
- Machine Learning
- Scikit-learn
- Deep Learning-Neural Network
- TensorFlow / PyTorch
- SQL
- Microsoft SQL Server
- NLP
- Prompt Engineering
- C#
- ASP.NET Core
- JavaScript
- Html-Css

Languages

- English (C2)
- Spanish (A2)

Courses

07/2025 – 10/2025
İstanbul/Türkiye

Data Analytics and Machine Learning
SOFTITO İstanbul Ticaret Odası
By successfully completing this 320-hour, project-based certification program, I have gained full proficiency in data analytics and machine learning. This experience provided me with the practical skills and confidence to define data-driven problems and implement effective modeling solutions.

Certificates

softITo Data Analytics and Machine Learning
İstanbul Ticaret Odası

Asp .NET Core MVC ile Sıfırdan E Ticaret Yazılımı Geliştirme
Udemy

IBM Z Xplore - Concepts
IBM

Python : Veri Bilimi ve Machine Learning
Udemy

Introduction to Deep Learning
Coursera

Projects

Fire And Smoke Detection Inside An Indoor Environment
I independently developed an IoT-based multi-sensor indoor fire and smoke detection system integrating a smoke sensor, flame sensor, and camera. The system provides real-time monitoring on an LCD, triggers alarms within 500 ms, and sends SMS alerts via GSM. I was responsible for dataset creation, circuit design, and system integration, ensuring high accuracy, budget efficiency, and compliance with environmental and safety standards

Database-Integrated AI Chatbot Using LLM
I developed a locally running AI chatbot that translates natural language questions into accurate SQL queries and retrieves relevant data directly from the database. In this project, I utilized an LLM-based approach and specifically implemented the LLaMA 4 model. This allowed users to query and access complex database information without requiring technical SQL knowledge, providing a user-friendly and efficient solution by combining natural language processing with database integration.

References

Rahşan Önal, *Proje ve İş Geliştirme Müdürlüğü SoftITo Proje Sorumlusu,* İstanbul Ticaret Odası
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Murat Hazıroğlu, *Yönetim Kurulu Üyesi,* İstanbul Ticaret Odası
Contact information will be shared if necessary.

Çağla Aktuna Oyar, *Kurumsal Eğitmen,* Eğitim ve Proje Müdürü
cagla.oyar@cbotechnology.com