



MEHMET EMİN BAYRAK

DATA ENGINEER

OBJECTIVE

Recent Computer Science graduate with a strong foundation in data engineering and backend development. Skilled in building scalable, secure, and efficient data pipelines using Apache Spark, SQL databases, and Java Spring Boot. Seeking to leverage technical expertise to design and optimize reliable, high-performance data infrastructure.

SKILLS

Technical Skills

- **Data Engineering & Backend :**
 - Java Spring Boot, Node.js, C++
- **Databases:**
 - PostgreSQL, MySQL, SQLite
- **Data Processing & APIs:**
 - RESTful APIs, Postman
- **Cloud Technologies:**
 - AWS
- **Version Control:**
 - Git, Bitbucket
- **Programming Languages:**
 - Java, Python, C++

Languages: English (Fluent),
Turkish (Native), German (Beginner)

CONTACT

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bayrak
GitHub: github.com/Meminn

PROFESSIONAL EXPERIENCE

Network Specialist Intern

Gelecek Varlık Yönetimi A.Ş. | July 2022 - September 2022

- Designed and simulated the network topology using Packet Tracer.
- Participated in cybersecurity analysis processes.

Commercial Team Member

SUCyber (Cybersecurity Community) | 2021 - 2022

- Created advertisements for events organized by the Sabanci University Cybersecurity Community.

Volunteer

Sabanci University Civil Involvement Projects | January - June 2020

- Engaged with elderly residents in a nursing home, fostering community involvement.

PROJECTS

Vinylbox (Online Store Webpage)

Software Engineering Term Project | February - June 2023

- Built a full-stack web app using **React**, **Java Spring Boot**, and **PostgreSQL**. Followed **Agile** methodology with task tracking in
- **Jira** and version control via **Bitbucket**.

MovieDB

Database Systems Term Project | February - June 2023

- Built a PHP and **MySQL**-based movie database web application using XAMPP.

KoçFinans Predicting Probability of Default for Car Loan Applications

Graduation Project | October 2023 - June 2024

- Created a probability of default model for predicting car loan application results.
- Utilized XGBoost and LightGBM for modeling.
- Implemented SHAP, Lime, and Counterfactual explanation methods for model interpretation.

Twitter Bot User & Political Tweet Classification

Machine Learning Term Project | March - June 2022

- Developed models to classify Twitter bot accounts and political tweets using logistic regression, decision trees, and neural networks.

Dogecoin Prediction

Data Science Term Project | October 2021 - January 2022

- Analyzed historical Dogecoin data and predicted future closing values using linear regression and neural network regression methods.

THz Communication in Healthcare

Undergraduate Project Course | February - May 2021

- Conducted research on THz Communication technologies and their applications in healthcare.

EDUCATION

Sabanci University, Istanbul

B.Sc. in Computer Science and Engineering (100% Scholarship)

Minors: Business Analytics, Mind & Behavior

GPA: 3.07 / 4.00

September 2019 - June 2024

Aziz Atik Science High School, Samsun

September 2015 - June 2019