SAHAN AYTEKIN

SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Computer Engineering graduate with a strong foundation in software development using Java, Python, C, C++, and SQL. Experienced in developing projects in artificial intelligence, deep learning, and computer vision, with a particular focus on AI applications built with PyTorch. Gained hands-on experience in data processing, SQL, data analysis, and modern data infrastructure through Big Data training and a Data Engineering internship. Strong analytical thinking and problem-solving skills enable effective contributions to backend, data engineering, AI, and software development projects. Continuously expands technical expertise, adapts quickly to new technologies, and collaborates effectively within cross-functional teams to deliver reliable software solutions.

PROFESSIONAL EXPERIENCE

Data Analytics & Artificial Intelligence Intern | Turk Telekom **July 2024 – August 2024**

- Cleaned, processed, and analyzed structured datasets using Python to support reporting and business insights.
- Prepared CSV-based datasets for analytical reporting and data visualization.
- Supported dashboard creation and data visualization for internal analytics.
- Collaborated with AI and Data Analytics teams on ongoing analytics projects.

Data Engineering Intern | Yolda.com **June 2023 – August 2023**

- Worked with Docker and Apache Airflow to understand modern ETL workflows.
- Managed datasets stored on Amazon S3 as part of data engineering workflows.
- Queried relational databases using SQL for data extraction and analysis.
- Gained practical knowledge of modern data engineering workflows and data infrastructure.

PROJECTS

- **Deep Learning-Based Clothing Classification**

Designed and developed a deep learning-based clothing classification system using ResNet18, Prototype Networks, Triplet Learning, and XGBoost. Applied transfer learning and metric-learning techniques to improve feature representation for clothing recognition.

- **Smart Parking Platform**

Built a real-time smart parking application using YOLOv8 to detect and monitor parking occupancy. Integrated object detection to monitor parking occupancy from live video streams.

- **Medical Image Segmentation**

Implemented a ResNet18-based U-Net model trained on the MedSegBench dataset for medical image segmentation. Performed pixel-level segmentation of medical images for automated region detection.

- **HER2 Classification Model**

Developed a CNN model to classify HER2 immunohistochemistry images into four diagnostic categories. Automated image categorization to support pathology image analysis.

- **Real-Time Face Detection & Gender Classification**

Built a real-time face detection and gender classification application using a custom-trained ResNet50 model.

- **Movie Recommendation System**

Designed and implemented a movie recommendation application using Heap and Binary Search Tree data structures to optimize movie search and ranking.

- **Vehicle Sales Application**

Built a Java desktop application featuring user authentication, CRUD operations, and database integration for vehicle sales management.

EDUCATION

Bachelor of Science in Computer Engineering | 2020 – 2025
Fatih Sultan Mehmet Vakıf University | GPA: 2.90

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL
AI / Machine Learning: PyTorch, TensorFlow, Scikit-learn, OpenCV
Data Engineering: Apache Airflow, Apache Kafka, MongoDB, Amazon S3
Tools: Git, Docker, Flask, Java Swing

LANGUAGES

Turkish — Native
English — B2 (Upper-Intermediate)