Umut Şuataman

Computer Engineer

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About Me

Recent Computer Engineering graduate specializing in computer vision and autonomous systems. Proven experience building real-time object detection models (YOLOv8) and GPS-free autonomous flight systems for TEKNOFEST. Proficient in full-stack web development and applied machine learning.

Technical Skills

Python (OpenCV, YOLO, NumPy, Pandas) · TensorFlow/Keras · ROS2 & Gazebo · Java (OOP, Swing/JavaFX) · React/Next.js · MySQL/Firebase · Git/GitHub

Projects

- **Heart Disease Risk Prediction (ML) :** Compared 4 classifiers on 270 patient records; best model (Logistic Regression) reached ~85% accuracy, ROC-AUC ≈ 0.90. Published on Medium.
- **Fixed-Wing UAV Detection & Tracking :** YOLOv8-based real-time detection and tracking system for UAV footage.
- **Image Processor Webapp :** Full-stack (Next.js + OpenCV) web app for image editing operations.

Experience

Misya Havacılık ve Yazılım Teknolojileri A.Ş. – Autonomous UAVs 2025-2025

Intern, 20-Day Internship

- Worked on GPS-free autonomous UAV flight scenarios, focusing on drone localization using visual odometry (VIO) and sensor data.
- Integrated sensors and managed data flow within a ROS2 (Robot Operating System)-based infrastructure.
- Built a simulation environment using Gazebo Harmonic and ArduPilot to conduct autonomous flight tests.

MİSYA Combat UAV – TEKNOFEST 2024-2025

Software Department, MİSYA Student Community, Combat UAV team-TEKNOFEST

- Developed image processing algorithms using YOLOv8 for object detection.
- Worked on a real-time target detection and tracking system as part of the Combat UAV competition team at TEKNOFEST.

BTC Information Technologies Inc. – Enterprise Resource Planning (ERP) 2024-2024

Intern, 20-Day Summer Internship

- Participated in a 20-day internship program focused on SAP-based ERP software.
- Gained experience in corporate software processes and worked on basic data flow systems within the SAP environment.

TravelArt Website – TEKNOFEST 2022-2023

Back-End Developer, IEEE BAUN Student Branch

- Developed a web application for a tourism technology competition project.
- Coded backend modules for data management, user authentication, and content systems.

Education Balıkesir University – Bachelor's Degree in Computer Engineering GPA: 2.95 / 4.00
Data Science & ML Bootcamp – Huawei & Türkiye Yapay Zeka Akademisi (Certificate)

Languages English – Intermediate / Upper-Intermediate