

# Murat Kirca

(+49)15175083283 | omermuratkirca@gmail.com  
[LinkedIn](#) | [Github](#) | [Personal Website](#)



## PERSONAL SUMMARY

M.Sc. Computer Science student at Universität Konstanz with hands-on experience in machine learning, computer vision, and data-driven applications. Experienced in mobile development and automation, with a strong focus on building functional systems and extracting insights from data.

## EDUCATION

<b>Universität Konstanz</b> <i>M.Sc. in Computer and Information Science</i>	Konstanz, Baden-Württemberg <i>Oct. 2025 – Expected 2027</i>
<b>Istinye University</b> <i>B.Sc. in Computer Engineering (GPA: 2.2 German scale)</i>	Istanbul, Turkey <i>Oct. 2021 – July 2025</i>
<b>42 Istanbul Piscine Program</b> <i>Intensive 4-week program in C, algorithms, and UNIX systems</i>	Istanbul, Turkey <i>Aug. 2022 – Sep. 2022</i>

## EXPERIENCE

<b>Mobile App Development Intern</b> <i>Ulusal Faktoring (BDDK-regulated financial institution)</i>	Jul. 2024 – Aug. 2024 <i>Remote</i>
<ul style="list-style-type: none"><li>Contributed to the development of a production-level fintech mobile application using Flutter and BLOC architecture</li><li>Designed and implemented secure authentication and transaction-related features backed by Firebase services</li><li>Collaborated in a remote Agile team, participating in sprint planning, code reviews, and version control using Git</li></ul>	

## PROJECTS

- Vulnerable Group Detection** | *Python, OpenCV, YOLOv5, PyTorch*
- Developed a real-time computer vision app leveraging YOLOv8 to detect vulnerable pedestrians (e.g., wheelchair users, strollers) at crosswalks.
  - Implemented adaptive traffic control logic that dynamically extends crossing windows and modifies vehicle signal durations upon detection.
  - Built an interactive coordinate-masking interface using cvzone and OpenCV for custom detection zone configuration.
- OweMate** | *Flutter, Dart, Firebase*
- Developed a mobile application for tracking shared expenses and managing debt records
  - Implemented Firebase Authentication and Firestore for secure user management and data synchronization
  - Designed state management and structured UI components for scalable feature extension
- C-Track** | *React, Spring Boot, MongoDB, REST API*
- Developed a full-stack cleaning management system for task tracking and resource coordination
  - Designed and implemented RESTful APIs using Spring Boot for client-server communication
  - Integrated MongoDB for scalable NoSQL data storage and efficient querying

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, JavaScript, HTML/CSS, SQL (Postgres), Dart  
**Frameworks:** Spring Boot, React, Flutter, REST APIs, MongoDB, PostgreSQL, Firebase, OpenCV, PyTorch  
**Libraries:** pandas, NumPy, Matplotlib

## LANGUAGES

**Turkish:** Native | **English:** Fluent (IELTS 7.5 C1) | **German:** A2.1