



Ahmet Ruchan AVCI

Computer Engineer

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EDUCATION

Beykent University, Faculty of Engineering Computer Engineering

06/2024 | İstanbul, Türkiye

Cumulative GPA: 3.64 / 4.0

- Graduated at the pinnacle of class achievement within a competitive computer engineering curriculum, recognized with valedictorian honors while maintaining an average GPA above 3.64 across all semesters.

Adile Mermerci High School, Mathematics Science

07/2019 | İstanbul, Türkiye

PROFESSIONAL EXPERIENCE

Hisar Hospital Intercontinental | Full-Time, Jr. Software Engineer

07/2025 – Present

Üsküdar, İstanbul, Turkey

- Actively engaged in the research, development, and deployment of **AI solutions**, specializing in **Machine Learning, Deep Learning, and NLP** for real-world problem-solving.
- Developed resilient **Python REST APIs** using **Flask and FastAPI** to integrate services, including **Speech-to-Text** and **OCR (Computer Vision)** functionalities.
- Contributed to **C# backend systems** and managed data persistence/optimization using **PostgreSQL, Microsoft SQL, and Redis** for caching and high-speed data access.
- Streamlined application deployment via **Docker** containerization and orchestration with **Kubernetes**, and managed code lifecycle with **GitLab**.
- Focused on building scalable AI-integrated applications, including **ERP (HBYS) integrations**.

TÜBİTAK BİLGEMLİ MÜDEKKİ, Intern Machine Learning Engineer

06/2023 – 09/2023 | Gebze, Kocaeli, Turkey

- Specialized in **data science workflows**, including data preprocessing, visualization, and advanced analytics, at **B3LAB (Cloud Computing and Big Data Research Laboratory)**.
- Contributed to the EU-funded **STORAGE** project by designing and optimizing **machine learning and deep learning models** to enhance automation and intelligent decision-making processes.
- Led comprehensive data analysis and visualization efforts, successfully transforming **10,000+** raw datasets into high-quality insights.
- Engineered and fine-tuned machine learning algorithms, which resulted in a **15% reduction in error rates** and a **25% increase in operational efficiency** through improved real-time anomaly detection.

PROJECTS

TEKNOFEST and European Rover Challenge,

09/2024

Autonomous Ground Rover

- Led the development of AI, ML algorithms, and computer vision systems for an autonomous ground rover competing in the European Rover Challenge (ERC) and TEKNOFEST. Utilized ROS and Jetson Orin Nano to enhance navigation, object detection, and decision-making, achieving 1,000+ successful detections in evaluations.

DetectHub, Computer Vision Project

04/2024

- Founded **DetectHub**, a collaborative platform for 500+ researchers and developers in computer vision and AI, enabling the creation of 200+ models and 300+ datasets, improving object detection accuracy by 15% and accelerating project timelines.

SKILLS

Python • C (Programming Language) • TensorFlow • Keras • Scikit-Learn • PyTorch • OpenCV • YOLO • AWS • Git • Embedded Systems • Linux • Artificial Intelligence (AI) • Machine Learning • Deep Learning • PostgreSQL • FastAPI • Computer Vision • Redis • GitLab CI/CD • Docker

LANGUAGES

Turkish: Native • **English: Fluent**

INTERESTS

Aikido: (Shodan: Officially Licensed Black Belt) • **Science** • **Space and Technology** •

Book and Authorship • **Art and Design**