MUSTAFA TALHA ILERISOY

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EDUCATION

Eindhoven University of Technology

MS Artificial Intelligence & Engineering Systems   2023 - 2025
Honor's Program

Boğaziçi University

BS Electrical & Electronics Engineering, GPA: 3.27/4   2018 - 2023
Honor's Reward

WORK EXPERIENCE

Turkish Airlines Technology

- *Linux System Admin (Part-Time)*   **June 2022 - March 2024**

  Advanced Linux Server Configuration and providing infrastructure (IaaS), Bash Scripting for daily operational automation, Automating workloads using Ansible, Writing Ansible playbooks, Disaster Recovery Responsible

Boğaziçi University

- *Undergraduate Researcher at Artificial Intelligence Institute*   **November 2022 - March 2023**

  Horizontal Data Integration for Bio-informatics using Deep Learning Methods, Analysis and integration of clustering algorithms

- *Undergraduate Researcher at Intelligent Systems Laboratory*   **November 2021 - August 2022**

  Development of Automated Agricultural Robot, Design and testing of robotic hardware equipment, ROS Architecture development, Embedded software development using C++, Documentation

TECHNICAL SKILLS

Programming	Proficient: Python, MATLAB Intermediate: Bash, C/C++, Basic: R, C#
Tools	Jupyter Notebook, PyTorch, TensorFlow, Keras, Numpy, Pandas, MS Office, VS Code, ROS, Linux, Version Control (Git), Cloud Deployment, Ansible
Language	Turkish (Native), English (Full Proficiency), Spanish (Elementary)

PERSONAL PROJECTS

PaperLyst   **October 2023 - Present**

- *Co-founded and leading the development of a software solution employing AI and advanced algorithms to support academic paper readers.* *paperlyst.app*
  Directing the implementation of LLM models, prioritizing scalability for handling academic papers and users. Driving the development team in creating features for discovering similar papers and providing summaries. Collaborating closely with the team to ensure effective project execution and ongoing enhancements.

TU/e Interdisciplinary Team Project   **Feb 2024 - July 2024**

- *Assisting Tarucca on their mission to develop a Wind Turbine anomaly detection system.*
  Investigation and processing of time-series accelerometer data. Frequency domain analysis. Development of a Denoising Autoencoder (DAE).

TU/e City Scapes Competition   **Feb 2024 - April 2024**

- *Semantic Segmentation competition for Neural Networks for Computer Vision course*
  Developing a CNN-based deep learning model for semantic segmentation focusing on peak performance for the CityScapes dataset. Increased efficiency by decreasing model size and inference time through quantization and pruning. - Deep Learning, Computer Vision, Convolutional Neural Networks, Segmentation

Start-Up - sPlant   **June 2021 - June 2023**

- *Raised a Hydroponics-based autonomous farming start-up that got accepted by two start-up incubators. Our final product enables HoReCa (the whole food service industry) to provide fresh and healthy green food to their customers. Led the team, built and presented the business plan to juries, designed and implemented hardware and software. I transferred the operations to my project partner to continue my studies in AI*