

# MUSTAFA TALHA ILERISOY

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## EDUCATION

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### Eindhoven University of Technology

Eindhoven, Netherlands

MSc Artificial Intelligence & Engineering Systems

2023 - 2025

- Thesis Topic: Investigating the Effects of Quantization and Knowledge Distillation on Multimodal AI Models in Zero-shot
- **Thesis Supervisor:** Nirvana Meratnia, n.meratnia@tue.nl

### Bogazici University

Istanbul, Turkey

BSc Electrical & Electronics Engineering, GPA: 3.27/4

2018 - 2023

## WORK EXPERIENCE

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### Vlisco, Netherlands

July 2024 - Present

Machine Learning Engineer Intern

**Manager:** Arnaud Pincet, a.pincet@vlisco.com

- **Developed and deployed a Computer Vision solution** for the marketing department, capable of scraping and processing 200,000 images daily.
- Enhanced campaign effectiveness and marketing content database by identifying 20 historical figures and celebrities who use our product.

### Tarucca, Netherlands

Feb 2024 - July 2024

Machine Learning Engineer Intern

- Developed a **data-driven** wind turbine **maintenance system**.
- Led **project management** and **stakeholder engagement**, ensuring successful implementation and operational efficiency.
- Analyzed time-series sensory data, **improving data reliability by %30** by identifying data leakage and sensor malfunction.

### Turkish Airlines, Turkey

June 2022 - March 2024

Linux System Admin Intern

**Supervisor:** Fatih Murat Topaloglu, ftopaloglu@thy.com

- Infrastructure management and automation of Red Hat servers via Ansible and Bash scripting.
- **Identified an operational bottleneck** in backup management and **automated the process** which **decreased the workload by 90%**.
- Developed a CLI for the team to speed up the handling of incoming tickets.

## PERSONAL PROJECTS

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### [Interview Assistant](#)

January 2025 - Present

Full-stack Developer

- **Led the development and deployment of a full-stack web application using Next.js and Flask.** Integrating OpenAI's API for generating mock interview questions.

- **Engineered RESTful APIs** and **created SQL database** for user registration and user interview history.
- Implemented **scalable design** with **asynchronous task processing** using Redis and RQ.

## Neural Network for Computer Vision

Feb 2024 - April 2024

### Course

- Participated in the Cityscapes semantic segmentation competition for the Neural Networks for Computer Vision course, **placed 3rd in the semester**.
- **Developed a CNN-based** deep learning model for **semantic segmentation** on the CityScapes dataset, incorporating quantization and pruning to enhance efficiency.
- Leveraged the **Snellius HPC** cluster for **large-scale AI experiments**.

## TECHNICAL SKILLS

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### Programming

Proficient: Python | Intermediate: MATLAB, Bash, Typescript | Basic: C, C++

### Machine Learning

PyTorch, Tensorflow, Pandas, Computer Vision, LLMs, Model Deployment, MLOps, Data Analysis, Web Scarping, ROS, Data-driven Model Development, Snellius, High-Performance Computing

### Backend & Web Development

Flask, Next.js, RESTful API, SQL, NoSQL

### Cloud Technologies

CI/CD, Docker, Git, Azure, Linux, Ansible, Infrastructure Management