Berke Şentürk

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Education

Karlsruhe Institute of Technology   **Karlsruhe, Germany**
Remote Sensing and Geoinformatics - Master of Science   *2023–Present*
Sub Profiles of the program: Remote Sensing of Atmosphere and Computer Vision

Istanbul Technical University   **Istanbul, Turkey**
Geomatics Engineering - Bachelor of Science   *2017–2021*
Thesis: *Spatiotemporal tools for retrieval, analyze and visualization of climate change data (Software as a Service)*

Thesis Advisor: Prof. Dr. Hande Demirel

Work Experience

Fraunhofer IEE   **Kassel, Germany**
Master Thesis Student   *June 2025–Present*
- Topic: Long-term correction of short-term wind measurements using AI-based approaches
- Supervisor: Dr. Dr. Alexander Basse

Deutscher Wetterdienst   **Offenbach, Germany**
Intern   *March 2025–May 2025*
- Topic: Topic: Creation, analysis and evaluation of a raster dataset of calm and clear nights for urban planning purposes under climate change.
- Supervisor: Dr. Saskia Buchholz

Karlsruhe Institute of Technology   **Karlsruhe, Germany**
Work Student (HiWi)   *October 2024–March 2025*
- Project: ML approach for the detection of cloud holes (Convolutional Neural Networks)
- Development of deep learning model for detection of cloud holes using PyTorch.
- Labeling of convenient labels from Rectified (level 1.5) Meteosat SEVIRI image data
- Supervisor: Dr. Julia Fuchs

Institute of Meteorology and Climate Research (IMK)   **Karlsruhe, Germany**
Intern   *October 2024–Present*
- Project: Continual monitoring of fog life cycles based on geostationary satellite imagery
- Tech Stack: Python, Pandas, Xarray
- Supervisor: Dr. rer. nat. Eva Pauli, Prof. Dr. Jan Cermak

Inveon   **Istanbul, Turkey**
Software Engineer   *January 2022–September 2023*
- Built ERP integrations within the existing products for shipping and order microservices
- Tech Stack: .Net CORE, C#, Node.js, Docker, Elasticsearch, Redis, RabbitMQ, MySQL, SQL Server, MongoDB

Doktar Agricultural Solutions   **Istanbul, Turkey**
Intern   *June 2020–December 2020*
- Contributed to the development of a new crop identification product by streamlining Earth Observation data services and creating an AI classification tool.

Skills

Programming: Python, C#, Javascript, MATLAB, FORTRAN   *Proficient*

Frameworks: PyTorch, Scikit-learn, Pandas, Xarray, Flask, FastAPI   *Experienced*
.Net CORE, Node.js, React.js

Tools: Git, Docker, Linux, Terraform, AWS (Lambda, S3), Gitlab CI/CD   *Proficient*
Elasticsearch, Redis, Google Earth Engine, RabbitMQ

Languages: Turkish (Native), English (Fluent), German (Beginner), Spanish (Intermediate)

Databases: TimescaleDB. PostgreSQL, MySQL, SQL Server, MongoDB, Neo4j