



Arda Ongun

Data Science Master's Student | Electrical & Electronics Engineering Background

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Profile

Data Science Master's student in Berlin with a B.Sc. background in Electrical and Electronics Engineering. Focused on data analysis, machine learning, cloud data pipelines, automation and energy-related technical systems. Eligible for working student roles in Germany.

Education

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| M.Sc. Data Science
<i>University of Europe for Applied Sciences</i> | Mar 2026 - Mar 2028
Berlin/Potsdam, Germany |
| - Relevant coursework and focus areas: Machine Learning, Data Engineering, Data Analytics, SQL, cloud data workflows and applied research methods. | |
| B.Sc. Electrical and Electronics Engineering
<i>Bahçeşehir University</i> | Sep 2021 - Aug 2025
Istanbul, Türkiye |
| - Activities: E-Sports Team, Theatre Club and Career Development Club. | |

Professional Experience

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| Engineering Intern
<i>Smart Solar Technologies</i> | Jul 2024 - Sep 2024
Istanbul, Türkiye |
| - Supported automation and project engineering tasks in solar energy projects, combining technical documentation, system understanding and practical problem solving. | |
| - Gained hands-on exposure to SCADA, PLC fundamentals, AutoCAD and solar project planning workflows. | |
| - Worked on testing, troubleshooting and verification of sensor and automation-related setups. | |
| - Developed a PLC-based traffic light automation simulation to practice control logic and signal timing. | |

Projects

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| Concrete Crack Detection with CNN and Transfer Learning
<i>Machine Learning Project</i> | 2026 |
| - Built and evaluated image classification models for binary concrete crack detection using a labeled concrete surface image dataset. | |
| - Implemented a custom CNN and a MobileNetV2 transfer learning workflow using Python and TensorFlow; compared model performance with accuracy, loss and confusion matrices. | |
| - Used Grad-CAM visualizations to inspect model attention on correct and incorrect predictions. | |
| AI Job Market Salary Prediction
<i>Machine Learning Project</i> | 2026 |
| - Developed a regression workflow to predict salary patterns using an AI and Data Science job market dataset. | |
| - Applied preprocessing with imputation, one-hot encoding and scaling; trained Linear Regression, Decision Tree and KNN models. | |
| - Documented model comparison, results and limitations in a reproducible academic report and GitHub workflow. | |

Projects

Smart Office Security and Reporting System

2025

Capstone Project

- Collaborated in a 6-person EEE/CSE team on a smart surveillance system integrating YOLOv5 detection with ESP32-based notifications.
- Contributed to integration, testing, error handling and documentation; supported structured testing and retry/error-logging logic.
- Delivered instant alerts through Telegram Bot API and SMTP email; achieved approximately 80% detection accuracy and over 95% spatial coverage in testing.

AWS Cloud Data Pipeline / Data Engineering Lab Work

2026

AWS Academy

- Practiced data engineering workflows using AWS services, cloud data pipeline concepts, ETL logic, S3-based storage and query workflows.
- Completed AWS Academy Data Engineering and Cloud Data Pipeline Builder training badges.

Licenses & Certifications

AWS Academy Graduate - Data Engineering - Training Badge

Issued Jun 2026

Amazon Web Services Training and Certification

AWS Academy Graduate - Cloud Data Pipeline Builder - Training Badge

Issued Jun 2026

Amazon Web Services Training and Certification

Electric Industry Operations and Markets

Issued Oct 2024

Duke University

AI Summit 2024 Participation Certificate

2024

Bahçeşehir University Global

Skills

Data & ML: Python, SQL, Pandas, Machine Learning, Data Analysis, Data Visualization, PostgreSQL, Power BI

Cloud & Tools: AWS, Data Engineering, ETL Concepts, Cloud Data Pipelines, GitHub, Jira

Engineering: SCADA, PLC Basics, AutoCAD, MATLAB, Proteus, Circuit Analysis, Solar Energy, Technical Documentation

Interpersonal: Team Collaboration, Public Speaking, Community Service

Additional Experience & Engagement

Model United Nations (MUN) Conferences

2016 - 2020

Delegate and staff member roles

- Participated in international conference settings, developing communication, public speaking and teamwork skills.

Volunteering

Aziz Nesin Foundation and Bakırköy Şefkat Huzurevi

- Supported educational and social initiatives and contributed to elderly care activities through volunteer work.

Languages

Turkish	Native or bilingual proficiency
English	Full professional proficiency
German	Limited working proficiency