

Maximilian Dachtler

Hölderlinstraße 14, 70806 Kornwestheim
+4915780432057 | max.dachtler@t-online.de

EDUCATION

2025- present	Johannes Kepler Universität Linz MSc Artificial Intelligence
	<ul style="list-style-type: none">Area of specialization: Life Sciences
2021 - 2025	Hochschule Karlsruhe – University of Applied Sciences BSc Data Science
	<ul style="list-style-type: none">GPA 1.4 (Germany)
	<ul style="list-style-type: none">Relevant coursework: Natural Language Processing, Data Mining & Fundamentals of Machine Learning, Optimization, Modeling and Simulation
	<ul style="list-style-type: none">Bachelor's thesis: Machine learning-based execution time prediction
2019 - 2021	Ernst-Sigle-Gymnasium Kornwestheim Abitur
	<ul style="list-style-type: none">GPA 1.7 (Germany)

WORK EXPERIENCE

05/2025- 09/2025	Working student, Vector Informatik GmbH
	<ul style="list-style-type: none">Improved observability for LLM serving using Prometheus metrics and Grafana dashboardsEvaluated and integrated Open WebUI into the existing Kubernetes clusterEvaluated MCP servers and OpenAPI tools for Open WebUI
09/2023 - 03/2024	Mandatory Internship – Laser Cutting Process Optimization, TRUMPF GmbH + Co. KG
	<ul style="list-style-type: none">Developed optimization approaches using computer vision techniquesDesigned and implemented a Bayesian optimization strategy in cooperation with the Fraunhofer InstituteEvaluated and benchmarked existing AI models for laser cutting processes

Academic Projects

11/2024- 03/2025	Bachelor's Thesis in cooperation with Vector Informatik GmbH
	<ul style="list-style-type: none">Topic: Machine Learning-based prediction of migration duration in the model-based development of E/E architecturesBuilt a dataset to evaluate migration duration for PREEvision, a tool used in model-based systems engineering (Vector Informatik)Extracted relevant features and trained multiple machine learning models
2024	Hybrid Energy Forecasting and Trading Competition
	<ul style="list-style-type: none">Developed probabilistic energy forecasting for a hybrid wind-solar power plantTrained and evaluated multiple model approaches, including classical machine learning and deep learningSubmitted daily forecasts and compared results with real-world data
2024	IoT Project – Occupancy prediction
	<ul style="list-style-type: none">Developed a machine learning model to estimate room occupancy based on CO₂ sensor dataWorked with time-series sensor data for feature extraction and model training

SKILLS & INTERESTS

Languages	German (native), English (fluent)
Technology	Python, PyTorch, TensorFlow, NumPy, Pandas, SQL, Git, Kubernetes, LaTeX, Excel, Matplotlib
Interests	Running, Volleyball, Chess, Diving, Traveling