

# Sebastian Wette

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## Education

### Technische Universität Darmstadt

Darmstadt, Germany

#### M.Sc. in Artificial Intelligence & Machine Learning

April 2024 - September 2026

- Current Grade: 1.3 (Top 5%).
- Awarded the ELIZA Research-Oriented Master's Scholarship (≈100 scholars; excellence-based program for outstanding PhD-track candidates).
- Supervised 70+ students in the university's "Practical Lab in Artificial Intelligence" for two semesters, supporting project work and applied ML topics.
- Research Assistant & Dev. at the AI/ML Lab: contributed to JAXAtari (Link), JAX-based RL environments, and co-authored an ongoing research paper.

### Hochschule Darmstadt

Darmstadt, Germany

#### B.Sc. in Computer Science (KoSI)

September 2020 - March 2024

- Graduated dual study program with Deutsche Telekom AG with a final grade of 1.2 (Top 5%).
- Recognized by supervising professor for outstanding Bachelor-thesis quality; co-developed methodology and experimental evaluation.
- First author of a peer-reviewed paper derived from the thesis: "OML-AD: Online Machine Learning for Anomaly Detection in Time Series Data" (Link) published by Springer Nature, presented at OL2A 2025 in Genova.

### Landrat-Gruber-Schule

Dieburg, Germany

#### Allgemeine Hochschulreife (Abitur)

2017 - 2020

- Chose an early specialization in Applied Computer Science (from 11th grade onward). Final Grade: 1.2 (Top 10%, upper range).

## Experience

### Merck KGaA

Darmstadt, Germany

#### Data Scientist (Working Student)

October 2024 - ongoing

- Delivered end-to-end data solution for a Life Science Quality Control department (cell culture media).
- Built an anomaly detection tool for cell viability & cell count, delivered with a Tableau dashboard for trend insights.
- Supported change management by rolling out new internal tools that streamline daily QC workflows and planning processes.
- Collaborated with Merck Millipore (US) on a system for similarity analysis of formulations using PCA and clustering to support R&D.

### Deutsche Telekom IT

Darmstadt, Germany

#### Backend Software Engineer (Full-Time)

April 2024 - September 2024

- Contributed to a 11-person cross-functional engineering team delivering scalable backend components.
- Developed Scala-based backend services and REST APIs supporting the nationwide fiber rollout (Gigabit/Glasfaser) program.
- Designed and maintained service integrations enabling efficient coordination of planning, rollout, and operational processes.

### Deutsche Telekom Technik

Darmstadt, Germany

#### Software Engineer (Dual Study Program)

September 2020 - March 2024

- Collaborated with a 9-person, Europe-wide engineering team across automation and ML initiatives
- Developed an anomaly detection system for network traffic using continuous ML (River), reducing manual effort and improving detection accuracy.
- Built end-to-end data pipelines and a Grafana dashboard for real-time insights and operational visibility.
- Combined academic studies with alternating semester-long industry projects and Bachelor thesis integration.

### Sebastian Wette IT Consulting GbR (Start-Up)

Darmstadt, Germany

#### Founder and IT/Web Consultant

January 2020 - March 2024

- Operated as a solo consultant, managing end-to-end delivery from requirements to deployment.
- Advised and delivered digital solutions for 10+ SME clients in the Darmstadt region, covering websites, e-commerce, and internal tools.
- Designed and implemented full-stack solutions using WordPress, Angular, Django, Node.js, and modern web technologies.
- Built and maintained client IT infrastructure, including local servers and NAS setups, ensuring stable and scalable operations.

## Recognition & Volunteering

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|------------|---|
| Sept. 2022 | <b>Winner Deutsche Telekom NLP Hackathon</b> , Created winning AI haiku generation system (2-person team).    |
| 2020-2024  | <b>Digital@School Volunteer</b> , Promoted STEM topics to primary students at events across Telekom sites.    |
| 2017-2020  | <b>Group Leader (Voluntary) at KjG Dieburg</b> , Supervised and led groups during multi-day summer camps.     |
| ongoing    | <b>e-fellows.net Scholarship</b> , Merit-based excellence program for high-performing students.               |
| ongoing    | <b>Gewässerschutz- und Angelverein Reinheim/Ueberau e.V.</b> , Local environmental & conservation engagement. |

## Skills and Interests

<b>Programming</b>	Python ●●●●●, C++ ●●●●○, Java ●●●○○, JavaScript/TypeScript ●●●○○, SQL ●●●○○, Scala ●●○○○, PHP ●●○○○
<b>Front-/Backend</b>	HTML5 ●●●●●, CSS/SASS ●●●●○, Angular ●●●●○, Flask & Django ●●●●○, Tailwind ●●●○○, Node.js ●●○○○
<b>DevOps &amp; Cloud</b>	Docker ●●●●●, Gitlab CI/CD ●●●●●, Kubernetes ●●●○○, Terraform ●●●○○, Packer ●●●○○, AWS ●○○○○
<b>ML &amp; AI</b>	River ●●●●●, Tensorflow ●●●●○, PyTorch ●●●●○, JAX ●●●●○, Scikit-Learn ●●●○○, NumPy ●●●○○, Pandas ●●●○○
<b>Languages</b>	German (Native), English (C1), Japanese (A2)
<b>Software / Tools</b>	MS Office, Adobe Creative Cloud, Tableau, LaTeX
<b>Interests / Hobbies</b>	Fishing, Weight-Training, Running, Tennis, Scuba Diving, Reading