Alexander Hilberer

Data & AI Systems Engineer

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Saarland, Germany

Website | LinkedIn | GitHub

Experience

BI & Data Science Consultant Oct 2025 – Present
PREVISIONZ GmbH, Saarbrücken, Germany

- Developed an agentic AI pipeline to analyse customer feedback and present actionable insights through an interactive Power BI dashboard.
- Developed an end-to-end MLOps workflow in Azure Machine Learning for customer churn classification.
- Implemented a recommendation system for banking products using hybrid collaborative-filtering methods.
- Supported the migration from Azure Synapse Analytics to Microsoft Fabric.

Working Student, Data Science Jan 2023 – Oct 2025
PREVISIONZ GmbH, Saarbrücken, Germany

- Analysed and compared MLOps lifecycles across Azure, Google Cloud Platform, and AWS.
- Designed and implemented an on-premises lakehouse architecture.
- Evaluated and integrated Microsoft Fabric into the central technology portfolio.

Bachelor's Thesis & Working Student, IT Dec 2021 – Dec 2022
Neodigital Versicherung AG, Neunkirchen, Germany

- Developed and evaluated linear models to estimate vehicle fuel consumption from simple sensor data. Then contributed to software development projects with a focus on front-end engineering.

IT Development Internship - Telematics Aug 2021 – Nov 2021
Neodigital Versicherung AG, Neunkirchen, Germany

- Evaluated suitable NoSQL database solutions.
- Set up a Cassandra cluster across multiple Docker containers.
- Developed a data model for storing vehicle speed data.
- Integrated Cassandra with the existing backend architecture.

Education

M.Sc. Artificial Intelligence & Data Science 2022 – 2025
Trier University of Applied Sciences
Master's thesis: Fine-tuning open-source LLMs.
Relevant coursework: Data modelling; Machine learning algorithms, including classical methods and deep learning; Practical implementation of machine learning models

B.Sc. Business Informatics 2018 – 2022
Trier University of Applied Sciences
Bachelor's thesis: Applied generalized linear models to estimate passenger-car fuel consumption using GPS and accelerometer data.
Relevant coursework: Business administration, finance, marketing, and accounting; Programming, networks, Linux, and operating systems; Advanced Business Analytics and machine learning; Classification methods in data mining

Selected Certifications

AI-103	Azure AI Apps and Agents Developer (Microsoft)
AI-300	Machine Learning Operations Engineer (Microsoft)
GCP MLE	Professional Machine Learning Engineer (Google)
DP-700	Fabric Data Engineer (Microsoft)
AZ-104	Azure Administrator (Microsoft)

Technical Skills

Data Engineering
Python, SQL, Data Modelling, ETL/ELT, Data Pipelines, Apache Spark, Apache Airflow

AI & MLOps
Machine Learning, LLM Applications, MLOps, MLflow

Cloud & Data Platforms
Microsoft Azure, Microsoft Fabric, Google Cloud Platform

Additional Information

Languages: **German** Native (C2) | **English** Professional working proficiency (C1)
Hobbies: Self-hosting, Swimming, Hiking