

Dr. Oliver Köhn

Senior Data & AI Engineer

Consultant for Data, Automation and AI

kontakt@oliverkoehn.info

+49 152 06348816

oliverkoehn.com

linkedin.com/in/droliverkoehn

Saarbrücken (Germany) · nationwide & remote

PROFILE

Senior Data & AI Engineer and PhD physicist with more than ten years of experience in data engineering, data science, cloud platforms, automation, and production AI systems. Delivery of complete solutions from analysis and architecture through data pipelines, backend and AI to user interface, deployment and operations.

CORE COMPETENCIES

Data Engineering & Platforms	Design and delivery of data pipelines, data models, data warehouses, lakehouses, and cloud data platforms.
Analytics & Data Science	Development of statistical models, predictive-analytics solutions, management dashboards, and explanatory analyses.
Automation & Integration	Automation of recurring business processes via APIs, workflows, events, and system integrations.
Applied AI	Development of production AI applications using language models, retrieval-augmented generation, agent systems, document analysis, semantic search, source display, and structured model outputs..
Architecture & Operations	Building operable solutions for cloud, European infrastructure, and local environments.

PROFESSIONAL EXPERIENCE

Consultant for Data, Automation and AI	Self-employed · 12/2024–present
- Automation of manual business processes from analysis to production - RAG, document, e-mail, and assistant systems - Local and hybrid AI architectures with open-source components	
Senior Data & AI Engineer	Public Cloud Group · 08/2024–11/2024
- Enterprise-wide Generative-AI platform and automated document analysis - Predictive analytics for industrial processes	
Senior Data Consultant	adesso Switzerland · 07/2022–07/2024
- Azure data platforms, ETL and cloud migration - Predictive maintenance and NLP - Power BI and Tableau analytics	
IT Architect	Finanz Informatik · 08/2020–07/2022
- Risk, analytical, and simulation architectures for financial services - Data-driven decision support and Quantum Computing	
Consultant	d-fine · 01/2016–06/2017
- Compliance, stress-test, and data-quality solutions - Automation of analytical and regulatory processes	

EDUCATION

- Ph.D. Physics**, Saarland University and University of Wisconsin–Madison, 2020 , very good
- M.Sc. Data Science** , IU International University of Applied Sciences, 2024
- M.Sc. Physics** , Saarland University, 2015
- B.Sc. Physics** , Saarland University, 2014

CERTIFICATIONS

- Fabric Analytics Engineer
- Azure Data Engineer
- Azure Data Scientist

SELECTED TECHNOLOGIES

Python · SQL · PostgreSQL · Spark · Databricks · Azure · Microsoft Fabric · AWS · GCP · LangChain · LangGraph · Hugging Face · Ollama · LiteLLM · RAG · FastAPI · Docker · n8n · Power BI · Grafana · Cloud · EU infrastructure · On-premises