Chris **Schulz**

TEAM LEAD | PRODUCT MANAGER | AI ENGINEER | AI OFFICER | DATA SCIENTIST | DATA STRATEGIST

Berlin GERMANY

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As an experienced AI Engineer and Head of Data & AI, I specialize in developing and deploying cutting-edge Large Language Model (LLM) solutions and scalable data architectures. My expertise spans the entire AI lifecycle, from strategy and data management to the implementation of Intelligent Document Processing (IDP) systems and agentic workflows. I am seeking a new challenge where I can leverage my passion for generative AI, Python, and cloud computing to create scalable and transformative products that drive innovation forward.

Experience

Dr Klein Ratenkredit GmbH
Lübeck, Germany

HEAD OF DATA & AI
05/2023 - present

- Spearheaded the development and implementation of a data and AI strategy aligned with the company's business goals, driving significant improvements in decision-making
- Developed and deployed a production-grade IDP (Intelligent Document Processing) system using Strands Agents SDK and Amazon Bedrock AgentCore to automate information extraction from documents, reducing after-contact work by 25%
- Engineered custom AI agents using the Model Context Protocol (MCP) to orchestrate complex workflows and integrate internal APIs with LLM capabilities
- Architected and implemented a holistic and scalable data management system (datalakehouse), streamlining the entire data pipeline from data ingestion to consumption, enabling data-driven decision-making and enhancing operational efficiency
- Established a robust data quality framework and implemented data validation principles, enabling continuous monitoring and improvement of data quality, fostering data soundness
- Implemented a standardized anomaly detection mechanism during data ingestion to proactively identify and flag potential system malfunctions, ensuring data integrity and system reliability
- Pioneered a data-driven customer segmentation approach, utilizing advanced clustering techniques to identify distinct customer personas, enhancing customer engagement
- Introduced a holistic data analysis framework, standardizing and streamlining the process of transforming raw data into actionable insights
- Designed and delivered a comprehensive training program in machine learning, data analytics, AWS, and Python/R programming, empowering 6 team members to independently work with data using 80% more efficient workflows

Allgeier IT GmbH
Berlin, Germany

DATA SCIENTIST CONSULTANT
12/2022 - 05/2023

- Developed a data vision, as well as strategy tailored to the client's customer service department business goals and needs
- Drafted a standardized cloud-based end-to-end data management framework from data sourcing over data clearing and transformation to data democratization
- Identitied and acquired new datasets to consistently enhance the data universe

Deutsche Kreditbank AG (DKB)
Berlin, Germany

LEAD DATA SCIENTIST
07/2022 – 11/2022

- Lead, manage, and develop a team of data scientists towards the application of best practices, standardization, and customer-focus
- Developed the company's data science vision, mission as well as strategy and roadmap tailored to the company's business goals and needs
- Established relationships with key stakeholders and executives by extending the data science target customer segments and leveraging synergy effects across the company
- Collaborated closely with various product teams to understand business problems, requirements, and restrictions to implement end-to-end algorithm-based solutions to leverage business value

Europace AG
Berlin, Germany

DATA SCIENTIST | TEAM LEAD CENTRAL DATA TEAM
01/2021 – 07/2022

- Lead Europace towards data-drivenness by reshaping the data strategy
- Build and extend a central data lake including service landscape to leverage synergies for business purposes across all Europace stakeholders
- Develop a data preprocessing framework on scale to enhance data quality significantly
- Enhance data quality significantly by the implementation of an ML-based anomaly detection mechanism that automates data validation
- Embed time series forecasting in data consummation tools to enable a forward-looking attitude across decision-makers

Europace AG
Berlin, Germany

DATA SCIENTIST | PRODUCT OWNER CENTRAL DATA TEAM
06/2020 – 01/2021

- Developed a standardized cloud-based end-to-end data framework from data sourcing over data clearing and transformation to data democratization for both loans and mortgage business
- Created and continuously extended KPI Dashboards across various teams and departments to set the base for data-informed decision making

Europace AG   *Berlin, Germany*

Data Analyst Loans Business   *08/2016 – 06/2020*

- Consult financial institutions and brokerage firms with regards to the implementation of technology innovation and data needs
- Lead Europace loans platform data driveness campaign
- Communicate key insights via self-developed interactive apps for executives, sales force, business desicion makers and operational purpose

Cerulli Associates   *London, UK*

Quantitative Analyst   *10/2015 - 08/2016*

- Provisioned data insights by sourcing, validating and analyzing data
- Executed model calibration, market sizing and forecasting of various European markets and asset classes
- Conducted research and captured distribution trends in institutional asset management along the institutional investment chain to calibrate client's market penetration strategies

Lloyds Banking Group   *Berlin, Germany*

Business Analyst   *03/2014 - 10/2015*

- Designed asset allocation framework for investment project for mass affluent clientele
- Developed a portfolio of investment vehicles covering the whole customer spectrum
- Created a selection algorithm utilising customer preferences, assessing qualitative and quantitative ETF characteristics to provide advice

Alstom Power   *Zurich, Switzerland*

Project Management Trainee   *12/2013 - 03/2014*

- Supported control and budgeting of full project lifecycle for construction to commissioning of EMEA power plants, ensuring budget compliance across 4 projects
- Created and presented financial forecasts, construction reviews, financial reviews, cost calculation execution, information database updates ensuring clarity of information

Education

Leipzig University   *Leipzig, GER / London, UK*

MSc. MANAGEMENT SCIENCE   *10/2011 – 10/2013*

- Key areas: finance, accounting and taxation
- Dissertation: Portfolio Management and Overlay Strategies in Practice
- Semester abroad within Erasmus exchange program (University of East London)

Leipzig University   *Leipzig, GER*

BSc. ECONOMICS & MANAGEMENT SCIENCE   *10/2008 – 10/2011*

- Key areas: accounting, finance, macroeconomics
- Dissertation: Information Content of Lagged Equity and Bond Yields

Selected Skills

Data Engineering & Cloud: AWS Cloud (SageMaker, Glue, S3, Lambda, DynamoDB, EventBridge, ECS, Firehose) ● Data Processing (Arrow, DuckDB, Apache Spark, Pandas, Polars) ● Databases (PostgreSQL, MongoDB, ElasticSearch, Redshift, Athena) ● DevOps & Tools (Docker, Git, CI/CD (GitHub Actions), AWS Cloud Development Kit)

Generative AI & LLMs: GenAI Patterns (RAG, Agents, Chain-of-Thought, ReAct, DSPy) ● LLM Frameworks (Agno, CrewAI, HuggingFace, LangChain, LangGraph, LlamaIndex, Strands Agent) ● Models & APIs (Anthropic, Amazon Bedrock, HuggingFace, Ollama) ● LLM Ops (Fine-tuning (PEFT/LoRA), Evaluation (Ragas), Deployment, Monitoring) ● Vector Databases (Amazon S3 Vectors, ChromaDB, FalkorDB, Qdrant) ● Model Context Protocol (MCP Server Implementation, Client Integration)

Leadership & Strategy: Management (Team Leadership, Agile/Scrum, Hiring, Mentoring) ● Strategy (AI Roadmap, Data Strategy, Product Management, Stakeholder Management) ● Communication (Blog, Technical Writing, Workshops, Stakeholder Reporting)

Machine Learning & Data Science: Languages (Python, R, SQL, TypeScript) ● Classical ML (Regression, Classification, Clustering, XGBoost, LightGBM, Scikit-learn) ● Deep Learning (PyTorch, TensorFlow, Neural Networks, Transformers) ● Time Series (Forecasting, Classification, Anomaly Detection, Nixtla) ● Data Visualization (Plotly, Streamlit, Shiny, ggplot2, Matplotlib)