Chris **Schulz**

Team Lead | Product Manager | AI Engineer | Scientist | Data Analyst

Berlin GERMANY

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As a highly organized and results-driven Head of Data & AI based in Berlin, I leverage my expertise in data management, machine learning, and AI strategy to drive significant improvements in decision-making within global financial organizations, consulting firms, and the FinTech industry. With a proven track record of implementing scalable data systems and driving data-driven initiatives, I am committed to enhancing operational efficiency and delivering business value through innovative data and AI solutions.

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
- 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
- Developed and implemented a Large Language Model (LLM) solution to automate information extraction from customer communication, reducing customer service agent after contact work duration time by 25%
- 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
DATA ANALYST LOANS BUSINESS

Berlin, Germany

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
QUANTITATIVE ANALYST

London, UK

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
BUSINESS ANALYST

Berlin, Germany

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
PROJECT MANAGEMENT TRAINEE

Zurich, Switzerland

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
MSc. MANAGEMENT SCIENCE

Leipzig, GER / London, UK

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
BSc. ECONOMICS & MANAGEMENT SCIENCE

Leipzig, GER

10/2008 – 10/2011

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

Selected Skills

Cloud Computing: AWS Certificate ● Amazon S3 ● AWS Glue ● AWS Code Pipelines ● AWS SageMaker ● Amazon Redshift ● Amazon Athena ● Amazon EC2 ● AWS Lambda ● Amazon Bedrock ● Amazon EventBridge ● Amazon DynamoDB ● Amazon Timestream

Communication: presentations ● work shops ● blogging ● teaching and education ● dashboard design (Streamlit, Shiny, Redash, AWS Quicksight) ● data analysis reports (Markdown, Jupyter, Quarto) ● data visualization (highcharts, plotly, ggplot2, leaflet, matplotlib, seaborn)

Mashine Learning: data preprocessing ● feature selection and engineering ● performance evaluation ● Regression (Linear Regression, Logistic Regression) ● Regularization (Ridge, LASSO, Elastic Net) ● Bayes (Naive Bayes, GNB) ● Ensemble (Random Forrest, GBM, XGBoost, Catboost) ● Dimensionality Reduction (PCA, UMAP, t-SNE) ● Clustering (k-means, Hierarchical Clustering, Density-based Clustering) ● Neural Networks (Pytorch, Tenorflow) ● Large Language Models (HuggingFace, Langchain, Llamaindex) ● Model Context Protocol (MCP)

Other Technology: Docker ● GitHub ● Gitlab ● REST-API ● ElasticSearch ● MongoDB ● Bloomberg ● Morningstar ● Lipper ● Datastream Certificate

Project Management: Jira ● Confluence ● Github Projects ● Stackfield ● Kanban ● Scrum

Statistical Software: Python ● R ● SQL ● Apache Spark ● Presto

Time Series: Process Mining ● Time Series Forecasting (using statistics, machine learning, neural networks, foundation models) ● Time Series Clustering ● Monte Carlo Simulation