Wolfgang Spindeler, PhD
Data Scientist at DeepL

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Professional Experience

DeepL (Cologne, Germany, Remote Position)

Since 04/2021	**Data Science Lead Data Analytics Platform** • Scaling the Data Science talent of the Platform team from 1 to 8 people. Managing individual contributors by guiding their personal growth and providing feedback on their projects. • Leading the implementation and scalability of AB testing code and statistical models and metrics • Implementing and designing a system on analytics side for AB testing of Email campaigns • Kicking off Machine Learning projects for product optimizations (churn prediction, user segmentation, recommendations) • Kicking off Analytics around paid user growth (SEM and display campaigns)
10/2020 - 03/2021	**Senior Data Scientist Data Analytics Platform** • Automation and modelling for AB testing based (Python, SQL) • Definition and implementation of business and product metrics (e.g. revenue, traffic growth, user interaction metrics for AB testing) • Conceptualization and design of our infrastructure around submitting and scheduling data jobs, table design and visualizations.

trivago (Düsseldorf, Germany)

02/2020 - 09/2020	**Data Science Team Lead Marketplace** • Team Lead for a data quality team with leadership of 2 Data Scientists • Development of Anomaly Detection algorithms (Spark, Pandas, fbprophet, Tensorflow, MLFlow) • Ownership of various data pipelines on Hadoop (Hive, PySpark, Oozie, Impala)
01/2017 - 01/2020	**Data Scientist Marketplace** • Development of a Bayesian statistics library for A/B testing in Python • Development of a prototype for Bayesian A/B testing with R • Responsible Data Scientist for the customer facing tool `trivago Intelligence` (calculation and definition of customer metrics) • Implementation and maintenance of various ETL pipelines on Hadoop (Hive, Oozie, PySpark)
08/2016 - 12/2016	**Junior Data Analyst Sales** • Automated reporting to customers and account managers (Hive, Oozie, R Shiny) • Various Business analyses (R, Apache Impala, MySQL)

Intense AG (Cologne, Germany)	
02/2016 - 07/2016	**Junior Technical Consultant** • Technical consulting and project management around SAP

University of Münster, Mathematical Institute (Münster, Germany)	
08/2010 - 06/2015	**Research Assistant / Postdoctoral Researcher** • Research in pure mathematics with focus on Differential Geometry • Teaching tutorial classes and supporting students on their Bachelor theses and Seminar papers • Talks at mathematics conferences and workshops
2008 - 2010	**Student assistant** • Leading tutorial classes for math students

Education

07/2014	**PhD in Mathematics at University of Münster** • Grade: 'Magna cum Laude' • Field of research: Differential Geometry
07/2010	**Diploma in Mathematics at University of Münster** • Grade: A ("sehr gut (1.2)") • Minor: Economics

Data Science Skills and Tools

Data Science concepts:	• Data Exploration and Analysis (expert) • classical Machine Learning (tree methods, regression, scikit-learn) (advanced) • Design and Development of data pipelines (expert) • Statistical modeling and analysis (advanced) • Deep Learning (basics) • Principles in Software Engineering (basics)
Familiar Tools:	pandas, scikit-learn, tensorflow, pytorch, scipy, pymc3, jupyter, matplotlib, Hadoop, Hive, MySQL, bash, MLFlow, docker, conda, poetry

Others

Languages:	German (native), English (fluent)
Publications:	For my list of mathematical publications you can refer to https://www.researchgate.net/scientific-contributions/Wolfgang-Spindeler-2088164834
Interests:	Chess, Piano, Running