

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 Product Data Science Team from 3 to 8+ people. Managing individual contributors by guiding their personal growth and providing feedback on their projects.
- Leading the development of our AB testing analytics platform, ensuring scalability and validity of statistical models and metrics
- Designing and implementing automated analysis and randomization for experimentation for marketing email campaigns
- Initiating and mentoring machine learning projects for product optimizations (churn prediction, user segmentation, recommendations)
- Responsible for analytics around paid user acquisition (SEM and display campaigns) like implementing an attribution workflow and performing intervention analysis for measuring campaign effects

10/2020 -
03/2021

Senior Data Scientist Data Analytics Platform

- Automation and statistical modelling for high volume AB testing analysis for the DeepL website and desktop apps (Python, SQL)
- Definition and implementation of business- and product-metrics (e.g. revenue, traffic growth, user interaction metrics)
- Conceptualization and design of our inhouse analytics infrastructure around submitting and scheduling data jobs, table design and data visualization

trivago (Düsseldorf, Germany)

02/2020 -
09/2020

Data Science Team Lead Marketplace

- Team Lead for a data quality team (cleaning and merging external booking data) with leadership of a Data Scientist and a Data Engineer
- Development of Anomaly Detection algorithms (PySpark, 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 Skills:**
- Data Exploration and Analysis
 - Statistical modeling and analysis
 - Classical Machine Learning (tree-based methods, regression, scikit-learn)
 - Design and Development of data pipelines
 - Best practices in Software Engineering
 - Deep Learning (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