

Wolfgang Spindeler, PhD

Data Scientist at DeepL

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Professional Experience

DeepL (Cologne, Germany, Remote Position)

Since 04/2021 Data Science Team Lead Data Analytics Platform

- Scaling and developing the Data Science part of the team from 1 to 5 people, current goal is annual doubling in size
- Kicking off Machine Learning projects for product optimizations around user data (churn prediction, user clustering, recommendations)
- Designing a framework for MLOps as a cross team project of Data Scientists and Software Engineers

10/2020 - 03/2021 Senior Data Scientist Data Analytics Platform

- Implementation of an automated AB test analysis system, based on Python (pandas, scipy) and clickhouse SQL
- Definition and implementation of business metrics
- Forecasting of business metrics

trivago N.V. (Düsseldorf, Germany)

02/2020 - 09/2020 Data Science Lead Marketplace

- Data Science Lead of the teams `Marketplace Tools` and `Booking Data Quality`, leadership of 2 Data Scientists
- Development of Anomaly Detection algorithms (Spark, Pandas, fbprophet, Tensorflow, MLFlow)
- Ownership of several 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 an A/B testing tool prototype (R Shiny)
- Responsible Data Scientist for the customer facing tool `trivago Intelligence`
- 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 (SAP, SQL, Excel)
- Project Management

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 in Python around tree methods and regressions (expert)
 - Design and Development of data pipelines (expert)
 - Statistical modeling and analysis (advanced)
 - Deep Learning (basics)
 - Software Engineering Fundamentals (basics)
- Tools and libraries used:**
- Python Data Science libraries: Pandas, Scikit-learn, tensorflow, pytorch, scipy, Pymc3, jupyter, matplotlib
 - Other tools: Hadoop, Hive, MySQL, Bash, MLFlow, Docker, conda, poetry

Others

- Languages:** German (native), English (fluent)
- Publications:** See my list of my mathematical publications on [researchgate](#)
- Links:** [Linkedin](#), [github](#)
- Interests:** Chess, Piano, Running