Wolfgang Spindeler, PhD

Experienced Data Scientist with a Focus on Experimentation and Product Analytics

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Professional Experience

DeepL (Germany, Remote)

deepl.com is a freemium machine translation service with millions of daily users.

Staff Data Scientist - Experimentation
05/2023 - Present

- Spearheaded the development of DeepL's in-house experimentation platform to analyze hundreds of concurrent A/B tests.
- Researched and implemented advanced statistical methodologies, including CUPED for variance reduction.
- Provided strategic consulting to product and engineering teams on experimentation best practices.
- Built and maintained scalable data aggregation pipelines processing millions of daily user records.

Data Science Lead - Data Analytics Platform
04/2021 – 04/2023

- Scaled the product data science and analytics team from 3 to 10 members, leading 5 Data Scientists across two teams.
- Developed machine learning models for subscription and churn prediction to improve business performance.

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

- Designed and implemented robust data pipelines and statistical models for experimentation (Python, SQL).
- Designed and launched DeepL's experimentation platform to enable data-driven decision-making.
- Defined and operationalized critical business and product metrics for analytics and A/B testing.

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trivago (Düsseldorf, Germany)

trivago.com is a global hotel search platform. Roles focused on A/B testing, anomaly detection, metrics reporting, and data infrastructure.

Data Science Team Lead – Marketplace

02/2020 - 09/2020

- Managed a team of one data scientist and one data engineer, ensuring project delivery and mentoring team members.
- Developed time-series-based anomaly detection algorithms to identify production data anomalies and metric degradation.
- Led the development of automated cleaning and processing pipelines for external data sources.

Data Scientist - Marketplace

01/2017 - 01/2020

- Created a Bayesian statistics library in Python for A/B testing.
- Acted as the data expert for trivago's analytics tool for external customers, designing key reporting metrics.

Junior Data Analyst - Sales

08/2016 - 12/2016

- Automated reporting and data export processes using Hive and R Shiny.
- Conducted in-depth analyses of customer behavior.

Intense AG (Cologne, Germany)

Junior Technical Consultant

02/2016 - 07/2016

- Provided technical consulting and project management support for energy-focused clients.

University of Münster, Institute of Mathematics (Münster, Germany)

Research Assistant / Postdoc

08/2010 - 06/2015

- Conducted advanced research in pure mathematics, focusing on differential geometry.
- Taught undergraduate courses and supervised theses.
- Presented findings at international mathematical conferences and workshops.

Education

PhD in Mathematics

07/2014 - University of Münster

- Research focused on Differential Geometry.

Diploma in Mathematics

07/2010 - University of Münster

Key Skills

- **Experimentation & A/B Testing**: Expert in statistical modeling, AB test analysis, and experimentation platforms.
- **Programming**: Python (expert), SQL (expert), R (proficient).
- **Data Analysis**: Advanced expertise in statistical modeling, data exploration, and ETL pipelines.
- **Machine Learning**: Proficient in classical ML methods (regression, tree-based models).
- **Big Data**: Experience with large-scale data aggregation and processing.
- **Soft Skills**: Team leadership, cross-functional collaboration, and mentoring.

Languages

- German (native speaker)
- English (fluent)

Hobbies

- Chess, bouldering, and Kaggle competitions.