Wolfgang Spindeler, PhD

Experienced Data Scientist with focus on Product and Experimentation

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Professional Experience

DeepL (Germany, Remote Position)

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

05/2023 - now **Principal Data Scientist - Experimentation**

Maintaining and developing our inhouse Experimentation Platform for running UX and technical experiments (mainly AB tests) on our users

- Data aggregation pipelines (clickhouse SQL) processing multiple million user records per day
- Implementation and research of statistical methods for measuring the impact of experiments on our users (Python, SQL)
- Supporting data, product and engineering teams with the best practices on experimentation

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

- Scaling the Product Data Science Team from 3 to 10 people and leading 5 Data Scientists across two teams
- Leading the development of our Experimentation Platform - Focus on code scalability and validity of statistical models and metrics (Python, SQL)
- Machine learning projects for churn and subscription prediction

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

- Designing and implementing data pipelines and statistical models for our Experimentation platform (Python, SQL)
- Definition and implementation of business- and product-metrics (e.g. revenue, traffic growth, retention, user interaction metrics)

trivago (Düsseldorf, Germany)

trivago.com is a global hotel search platform. My roles focused on AB testing, anomaly detection, metrics definition, reporting, data infrastructure and later leading a team.

02/2020 - 09/2020 **Data Science Team Lead – Marketplace**

- Team Lead for a data quality team (cleaning and merging external booking data) leading a Data Scientist and a Data Engineer
- Development of anomaly detection algorithms based on time-series forecasting (PySpark, Pandas, fbprophet, Tensorflow, MLFlow)

01/2017 - 01/2020 **Data Scientist - Marketplace**

- Development of a Bayesian statistics library for AB testing in Python
- Data Science expert for the customer facing tool `trivago Intelligence`: calculation and definition of metrics, QA and generating insights
- Development of various data pipelines (Hive, PySpark)

08/2012 - 12/2016 **Junior Data Analyst - Sales**

- Automated reporting and data exports (Hive, R Shiny)
- Ad Hoc and in-depth analyses around the sales domain

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 • Tutorial classes and supporting students on their thesis 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**
07/2010	**Diploma in Mathematics at University of Münster**

Data Science Skills

- Data Exploration and Analysis (expert)
- Statistical modeling and analysis (expert)
- SQL (expert)
- Python programming (expert)
- Classical Machine Learning like linear or logistic regression and tree-based methods (expert)
- Design and development of data pipelines (expert)
- Deep Learning (basics)
- Software Engineering (basics)

Others

Languages: German (native), English (fluent)

Hobbies: Chess, Piano, Bouldering, Running

Additionally, I spent some of my time on data science competitions in order to learn more about forecasting, model tuning and Deep Learning beyond the scope of my professional work (see https://www.kaggle.com/wspinkaggle)

Publications: For my list of mathematical publications, you can refer to https://www.researchgate.net/scientific-contributions/Wolfgang-Spindeler-2088164834