Wolfgang Spindeler, PhD

Experienced Data Scientist with focus on Experimentation and Product

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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
- Research and implementation of advanced statistical methods for AB testing (e.g. variance reduction and sequential testing methods)
- Data aggregation pipelines processing multiple million user records per day (python, SQL)
- Supporting teams (mainly product and engineering) with best practices in experimentation and AB testing

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 (python, SQL) and validity of statistical models and metrics
- Machine learning projects for churn and subscription prediction (python, XGBoost)

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 different roles focused on AB testing, anomaly detection, reporting metrics, data infrastructure and being a team lead

02/2020 - 09/2020 **Data Science Team Lead – Marketplace**
- Team lead of a small team leading a data scientist and a data engineer
- Development of anomaly detection algorithms based on time-series forecasting (PySpark, Pandas, Tensorflow, fbprophet, , MLFlow)
- Processing and cleaning external booking data

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`: design and aggregation of reporting metrics (Hive, PySpark)

08/2016 - 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

Education

07/2014	**PhD in Mathematics at University of Münster**
	Research in Differential Geometry
07/2010	**Diploma in Mathematics at University of Münster**

Data Science Skills

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

Others

Languages:	German (native), English (fluent)
Hobbies:	Chess, Piano, Running, kaggle