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Professional Experience

DeepL (Cologne, Germany, Remote Position)

deepl.com is a freemium machine translation service with millions of unique daily users. My work focuses on leveraging user data for product optimization, for example AB testing or subscription prediction and churn prediction

Since 04/2021 — 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 AB testing platform for the website and desktop apps - Ensuring code scalability and validity of statistical models and metrics (Python, SQL)
- Initiating and mentoring machine learning projects for churn prediction and subscription prediction
- Exploring variance reduction techniques for AB testing, e.g. CUPED
- Analysis for measuring campaign impacts for paid user acquisition (SEM and display campaigns)

10/2020 - 03/2021 — Senior Data Scientist Data Analytics Platform
- Designing and implementing data pipelines and statistical models for our AB testing platform (Python, SQL)
- Definition and implementation of business- and product-metrics (e.g. revenue, traffic growth, retention, user interaction metrics)
- Conceptualization and design of our data analytics infrastructure around scheduling data jobs, table design and data visualization

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) with leadership of 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
- Responsible Data Scientist for the customer facing tool `trivago Intelligence` (calculation and definition of metrics)
- Implementation and maintenance of various data pipelines (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 (proficient) • Statistical modeling and analysis (proficient) • Python programming (proficient) • Classical Machine Learning like linear or logistic regression and tree-based methods (proficient) • Design and development of data pipelines (proficient) • Deep Learning (basics) • Best practices in Software Engineering (basics)

Others

Languages:	German (native), English (fluent)
Hobbies:	Chess, Piano, Running Additionally, I spend some of my free time on data science competitions. While not being very competitive I learn a lot about forecasting, model tuning and some Deep Learning: 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