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Summary

With over four years of expertise in data science and advanced analytics, I possess a proven track record in designing, implementing, and spearheading data-driven solutions. These solutions have significantly improved business efficiency and supported decision-making processes. My experience in stakeholder management and deep understanding of the technical infrastructure needed for driving data-driven innovations make me the ideal candidate to oversee and lead end-to-end projects aimed at solving business needs.

Experience

09/2024 - present	**Munich Re Digital Solutions, Munich** **Consultant Data Analytics**
06/2022 - 08/2024	**BMW Financial Services, Munich** **Data Scientist in Residual Value Risk**

- Project lead for the development of a predictive modeling framework aimed at forecasting future remarketing values of used cars to mitigate future remarketing losses.
- Developed Python modules that were shipped via AWS SageMaker, enabling users to derive forecasting models by following a time series cross-validation procedure. This harmonized the modeling approach across the company and its subsidiaries.
- Created data cleaning and feature engineering pipelines, providing a comprehensive end-to-end solution for transforming raw data into well-calibrated prediction models.
- Took the lead in stakeholder management during the roll-out phase of the modeling framework, ensuring effective communication and collaboration with key stakeholders.
- Successfully delivered an MVP for a guideline chatbot, incorporating a state-of-the-art RAG (Retrieval Augmented Generation) system. The chatbot was designed to enhance communication and collaboration within the business unit.

02/2020 - 04/2022	**ZEW - Leibniz Centre for European Economic Research, Mannheim** **Data Scientist in Innovation Research**

- · Played a key role as a primary contributor to political consulting projects at the federal ministry level, focusing on analyzing the economic effects of the COVID-19 pandemic
- · Demonstrated the immense potential of ML, Natural Language Processing (NLP), and Large Language Models (LLMs) in economic research through multiple highly-regarded peer-reviewed publications
- · Designed, developed, and maintained robust data pipelines, handling diverse datasets such as rectangular financial data and unstructured web data.

07/2019 - 12/2019	**TeamBank AG, Nürnberg** **Working Student, Data Analytics**

- · Developed a supervised ML model to predict customer retention for the optimization of call center activity
- · Demonstrated the use of unsupervised ML methods to segment customers into target groups

04/2019 - 07/2019	**Deutsche Bundesbank, Frankfurt am Main** **Internship, Stress Testing and Quantitative Analyses**

- · NLP project of banking related news as automated way to filter public sentiment towards banking sector

05/2018 - 04/2019	**Siemens Digital Factory, Erlangen** **Working Student, Business Development**

- · Full automation of the previously Excel-based CRM management report using R
- · Developed metrics to assess sales opportunities within the digitization-related product portfolio at Siemens

10/2016 - 03/2017	**BMW Credit Malaysia, Kuala Lumpur** **Internship, Riskmanagement**

- · Setting up residual value risk related processes for the launch of a new finance lease product
- · Scorecard performance monitoring and standard risk cost validation in credit risk
- · Operational risk reporting to head office

03/2016 - 09/2016	**BMW Group Financial Services, Munich** **Internship, Riskcontrolling**

- · Validated, analyzed and monitored risk indicators during the month-closing processes
- · Developed Excel-based reporting tools using VBA

Education

06/2020 - 11/2022	**Justus Liebig University Giessen** **Ph.D. in Statistics** ML, NLP, Economics of Innovation Thesis title: 'Essays on the Application of Statistical Learning in Empirical Economic Research' *magna cum laude* (equivalent to an A grade)
10/2017 - 12/2019	**Otto Friedrich University Bamberg** **M.Sc. in Economics** Economics, Statistics and Statistical Programming Thesis title: 'The Nonlinearity of Crises: Machine Learning Approaches to Economic Forecasting' Final grade: 1.0 (equivalent to an A grade)
10/2012 - 03/2016	**Eberhard Karls University Tübingen** **B.Sc. in Economics and Business Administration** Economics, Statistics and Finance Thesis title: 'Tax Incentives for International Profit Shifting within Multinational Groups - An empirical Analysis' Final grade: 1.1 (equivalent to an A grade)
08/2014 - 12/2014	**Temple University Philadelphia, USA** Exchange Semester
09/2008 - 05/2011	**Kaufmännische Schule Hechingen** **High school diploma** Final grade: 1.0 (equivalent to an A grade)

Software

Python	High proficiency in Python for ML, NLP, LLMs and for building backend architecture. Experienced in libraries such as scikit-learn, TensorFlow, PyTorch, transformers, HuggingFace, scrapy and Django.
R	Strong working knowledge of R for statistical analysis, data visualization, and predictive modeling. Proficient in packages such as dplyr, data.table, ggplot, mlr3, rvest, RSelenium and shiny.
Database and query technology	Skilled in SQL for data manipulation, querying, and database management. Experienced with relational databases such as Postgres, MySQL and Oracle.
Git	Proficient in using Git for version control and collaborative development. Experienced in managing code repositories, branching, merging, and resolving conflicts.
Docker	Experience with Docker for containerization and managing development environments. Skilled in creating and deploying containerized applications for reproducibility and scalability.
Bash	Familiarity with Bash scripting for automation, data processing, and system administration tasks. Experienced in writing Bash scripts for tasks such as data manipulation, file management, and process automation.
Other Tools	Familiarity with cloud microservices such as AWS Sagemaker and Azure DevOps, RESTful API development, programming languages such as SAS, and BI tools such as Tableau and PowerBI.

Language

German	Native
English	Fluent *UNIcert III*
Spanish	Good command *UNIcert II*

Certificates & awards

01/2021 - 04/2021	Coursera certificate on Natural Language Processing
06/2020 - 12/2020	Coursera certificate on Deep Learning
04/2015 - 12/2019	Studienstiftung des Deutschen Volkes
08/2014 - 11/2014	Baden-Württemberg-Stipendium
08/2014 - 11/2014	German-American Fulbright Commission
04/2013 - 03/2014	Deutschlandstipendium

References available upon request.

November 9, 2024

Julian Oliver Dörr