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Summary

With five 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

- Spearhead a PoC focused on automating the extraction of critical information from unstructured policy and claims data, enhancing data accessibility and usability
- Collaborate closely with business units to design and implement data-driven solutions that significantly improve decision-making processes in underwriting.
- Actively engage with the automation team to develop and deploy Python services on Microsoft Azure, optimizing the data journey for Munich Re's innovative data pooling solution.
- Support the establishment of Databricks as a unified platform for data management, enabling seamless access to pooling databases and leveraging Spark's distributed computing capabilities for enhanced data processing efficiency.

06/2022 - 08/2024

BMW Group, 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 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

- Developed a natural language processing (NLP) solution to automatically filter and analyze banking-related news, providing insights into public sentiment regarding the banking industry.

- 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

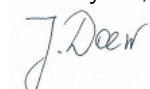
German	Native
English	Fluent <i>UNlcert III</i>
Spanish	Good command <i>UNlcert II</i>

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.

January 24, 2025



Julian Oliver Dörr