Joschka Schwarz

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7 years' experience working with data. Expertise in quantitative modeling, growing people and making data-driven decisions. Currently working as a **Research Associate (Ph.D. Candidate)** at the intersection of computer science, statistics and the social sciences as member of both the **Entrepreneurship & Data Science** groups.

I am looking for a position where I can use the skills that I have developed during my years in practice and academia to lead projects in the frame of analytics. As **Performance Engineer** at Vestas, I would be able to leverage my expertise in both instructing and implementing data-driven methodologies (technologies used mostly: **R, SQL and Python**).

🗂 Industry Experience

Hamburg University of Technology, Hamburg, Germany   **06/2018 - Present**
Program Manager | Research Associate (Institute of Entrepreneurship)

Engaged in collaborative research, teaching and industry project management alongside pursuing independent research and advancing academic and data science qualifications.

  - Provided startup consulting services, offering expertise in entrepreneurship and data science strategies
  - Lead B2B/B2C industry innovation projects with a focus on digital transformation and big data analytics
  - Pioneered the development of a *Digital Teaching and Learning Ecosystem* to facilitate remote classes
  - Mentored student theses, projects and internships, fostering growth and professional development

Lufthansa Technik AG, Miami, USA & Hamburg, Germany   **04/2017 - 03/2018**
Master's Degree Candidate (dept.: Closed Loop Supply Chain Management)

Developed a custom AI-driven solution, in partnership with IBM Watson, to streamline cost & response time.

  - Liaised with stakeholders to delineate project scope and ensure ongoing updates on progress
  - Strategically managed resources, delivering projects ahead of schedule and within budget
  - Orchestrated resource allocation, task delegation, and performance monitoring throughout

Horváth & Partners Management Consultants, Frankfurt on the Main, Germany   **10/2016 - 02/2017**
Management Consulting, intern (dept.: Transportation, Travel & Logistics)

Managed PMO for a large-scale project developing new location concepts for a leading European railroad company, involving infrastructure overhaul.

  - Led agile PMO operations including reporting, budget tracking and meeting facilitation
  - Contributed to establishing the project's framework and processes for seamless execution
  - Conducted profitability assessments and capacity analyses for each site, informing strategic decisions

AUDI AG, Neckarsulm, Germany   **09/2013 - 12/2013**
Process Optimization, intern (dept.: Body Construction A6/A4)

As the Lean Manufacturing Team coordinator, I facilitated the adoption of Lean Management principles and operational excellence strategies at AUDI, focusing on the Audi Production System (APS).

  - Taught lean methodologies, focusing on problem-solving, logistics, and process synchronization
  - Planned and moderated shopfloor management projects across both direct and indirect operational areas
  - Enhanced processes through detailed process mapping and value stream analysis

L'Arche Greater Vancouver, Vancouver, Canada   **08/2010 - 08/2011**
(Live in) Care Assistant (Alternative mandatory community service)

🔷 Teaching Experience

Data Science   **10/2019 - Present**

Designed and instructed a variety of business-oriented Data Science and Machine Learning courses, tailored to meet the specific needs and objectives of diverse organizations. These courses encompassed a range of topics, including data analysis, predictive modeling, statistical techniques and advanced ML algorithms:

- Data Science certificate program
- Business Data Science Basics
- Business Decisions with Machine Learning
- Building Business Data Products

Entrepreneurship & Innovation   **10/2018 - Present**

Instructing students in the essential skills necessary for launching a technology startup. These classes delve into various aspects crucial for building a successful startup, including ideation, market research, product development, marketing strategies, financial planning and entrepreneurial mindset cultivation:

- Startup Engineering
- Technology Entrepreunrship
- Sustainable Entrepreunrship
- Creation of Business Opportunities

🎓 Education

RMIT University Melbourne, Melbourne, Australia   **01/2023 - 03/2023**
Visiting Research Scholar

Hamburg University of Technology, Hamburg, Germany   **06/2018 - Present**
Ph.D. Thesis in Innovation Management & Entrepreneurship Science

Quantitative dissertation (using SQL, R, Python) on the influence of social, structural and reputational effects on entrepreuneurial success.

- Utilized web scraping techniques to gather large-scale datasets (> 5 bn records) from various sources
- Employed clustering algorithms and dimensionality reduction techniques to categorize similar data points
- Developed forecasting models using time-series analysis and predictive analytics to project future trends
- Applied natural language processing (NLP) techniques to extract insights from textual data sources
- Implemented machine learning algorithms for predictive modeling and classification tasks
- Utilized data visualization techniques to present findings in a clear and insightful manner
- Collaborated with interdisciplinary teams to leverage expertise and perspectives from diverse fields

Maastricht University, Maastricht, Netherlands   **02/2016 - 06/2016**
Visiting Research Scholar

Polytechnic University of Valencia, Valencia, Spain   **02/2014 - 06/2014**
Visiting Research Scholar

RWTH Aachen University, Aachen, Germany   **09/2011 - 03/2018**
B.Sc. & M.Sc. in Business Administration & Engineering

🔷 Professional Development (Certification)

Business Science University, remote   **06/2019 - Present**

Completed certification in implementing enterprise-grade end-to-end projects in business and finance, integrating machine learning methodologies and web applications:

- Business Analysis (Data Science Foundations)
- Data Science for Business (Predictive Dashboards)
- Shiny Web Applications (ML & Business Consulting)
- Advanced Web App Development with AWS

DataCamp, remote   **06/2019 - Present**

Achieved certification in the various Data Science tracks, encompassing statistics, inference, predictive analytics, ML and other technologies essential for deriving insights from large datasets (R, Pyhton and SQL):

- Data Analyst with R (19 Courses)
- Data Scientist with R (22 Courses)
- Machine Learning Scientist with R (15 Courses)
- Statistician with R (27 Courses)