MORITZ WILKSCH

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EDUCATION

University of Potsdam Master of Science Business Informatics and Digital Transformation

10/2019 - 09/2022

- specializing in Data Science and Machine Learning (current grade: 1.1, GPA: 4.0)
- Relevant coursework: Data Science, Machine Learning I & II, Deep Learning, Experiment Design, Big Data Systems, Computational Statistics, Advanced Research Methods, Social Media & Business Analytics Research Project

Duke University Master in Interdisciplinary Data Science

07/2021 - 11/2021

- visiting graduate student, semester GPA: 4.0
- Relevant coursework: Statistical modeling, Data Engineering, Natural Language Processing

University of Potsdam Bachelor of Science Business Informatics

10/2016 - 10/2019

• final grade: 1.4, GPA: 3.96

PROFESSIONAL EXPERIENCE

Open Source Development

02/2022 - Present

- Contributed to scikit-learn and polars, a fast data frame library for Rust and Python (https://www.pola.rs)
- · Creator and maintainer of pyFin-sentiment, an NLP library for financial sentiment analysis in python

Freelance Work 10/2019 - Present

- · Data-driven consulting project at a small local bistro
- · Restructured menu, staffing schedule, and kitchen based on transactions data collected from the cash register

Internship Consilio GmbH in Munich (SAP-Consultant)

09/2018

· Organized user stories and modeled business processes for a project with a DAX30 customer

Teaching Assistant *University of Potsdam Institute for Computational Science*

10/2017 - 07/2021

Teaching groups of 40-70 students in "Fundamentals of Programming" and "Practical Programming"

Private Tutor GiRA tutoring service

05/2016 - 07/2021

• Tutored groups of 3-5 students in the subjects math, computer science, and economics

SKILLS AND LANGUAGES

Technical Skills

- Extensive knowledge in the Python stack for data processing (Pandas, NumPy, Polars, SpaCy), machine learning (Scikit-Learn, Keras, PyTorch, XGBoost, LightGBM, HuggingFace), statistics (SciPy, PyMC3), data visualization (Matplotlib, Seaborn, GeoPandas), orchestration & distributed computing (Prefect, Ray, Dask), web scraping, development of microservices (FastAPI, Flask), and experiment tracking (MLFlow, W&B)
- Good knowledge in SQL, PostgreSQL, MongoDB, DynamoDB, and R
- Basic knowledge in Spark, Neo4j, ElasticSearch, Java, and C
- Experience with Git, Docker, CI/CD best practices, and using IaaS and PaaS services on AWS and GCP

Languages

• Fluent in German (native speaker) and English (Level C1, TOEFL: 117), basic knowledge of French

ACHIEVEMENTS

Publication The Predictive Power of Social Media Sentiment for Short-Term Stock Movements

02/2022

- Conference contribution published at "Internationale Tagung Wirtschaftsinformatik" (WI22)
- · Built and compared social sentiment machine learning models to forecast day-ahead stock returns

AWS Certified Machine Learning Specialist

12/2021

• Demonstrated proficiency in building and deploying end-to-end machine learning projects on the AWS cloud

"Deutschlandstipendium" Scholarship

2018 - 2022

· Scholarship for high-achieving and socially committed students, sponsored by Volkswagen AG

M. Wilkhulo Potsdam, June 27, 2022