

# MORITZ WILKSCH

<https://moritzwilksch.github.io>

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[>\\_ https://github.com/moritzwilksch](https://github.com/moritzwilksch)

## EDUCATION

### University of Potsdam

10/2019 – Present

- Master of Science Business Informatics and Digital Transformation
- Specializing in Data Science and Machine Learning
- 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

07/2021 – 11/2021

- Master in Interdisciplinary Data Science, visiting graduate student (semester GPA: 4.0)
- Relevant coursework: Statistical modeling, Data Engineering, Natural Language Processing

### University of Potsdam

10/2016 – 10/2019

- Bachelor of Science Business Informatics (Final grade: 1.4, GPA: 3.96)

## PROFESSIONAL EXPERIENCE

### Open Source Development

02/2022 – Present

- Contributed to *polars*, a fast data frame library for Rust and Python (<https://www.pola.rs>)
- Creator and maintainer of XXXX

### 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

09/2018

- At Consilio GmbH in Munich (SAP-Consultant)
- Organized user stories and modeled business processes for a project with a DAX30 customer

### Teaching Assistant

10/2017 - 07/2021

- At the University of Potsdam Institute for Computational Science
- Teaching groups of 40-70 students in “Fundamentals of Programming” and “Practical Programming”

### Private Tutor

05/2016 - 07/2021

- At the tutoring service GiRA, for subjects math, computer science, and economics

## SKILLS AND LANGUAGES

### Technical Skills

- Extensive knowledge in Python, especially in the data science stack NumPy, SciPy, Pandas, Scikit-Learn, Keras, PyTorch, XGBoost, LightGBM, Dask, Matplotlib, Seaborn, GeoPandas, Prefect, PyMC3, HuggingFace, and SpaCy
- Familiar with web scraping and web frameworks FastAPI and Flask
- Good knowledge in SQL, PostgreSQL, MongoDB, DynamoDB, and R
- Basic knowledge in Spark, Neo4j, Elasticsearch, Java, and C
- Experience in working with Git and Docker, applying 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



Potsdam, May 18, 2022