

Paul von Hirschhausen

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Bachelor of Science in Business and Economics, with additional academic focus in Mathematics and Statistics; currently completing a Master's in Data Science. Working as a Credit Risk Model Developer at Austria's leading bank, building production-ready risk models and scalable systems across the full data science lifecycle. Strong expertise in credit risk modelling and NLP, with a lean, business-driven approach to software development.

Education

TU Wien, Vienna, Austria Master of Science, Data Science	Mar. 2022 - Expected Dec. 2025
TU Wien, Vienna, Austria Bachelor of Science, Technical Mathematics (Statistics and Econometrics)	Start: Oct. 2019
TU Munich, Munich, Germany Bachelor of Science, Mathematics	Oct. 2018 – Jul. 2019
Vienna University of Economics and Business, Vienna, Austria Bachelor of Science, Economics and Social Sciences	Oct. 2014 – Jul. 2018
Alberta School of Business - University of Alberta, Edmonton, Canada Voluntary Exchange Semester	Jan. 2017 – Jun. 2017

Practical Experience

Lead Data Science Developer – RISSearch.at (in Development) <ul style="list-style-type: none">Lead Data Science Developer of RISSearch, a data privacy law and legal research platform (https://www.rissearch.at/).Developed and implemented a semantic search, summarization and Chatbot system for accessing over 158,000 legal texts and more than 700,000 court decisions from publicly available Austrian legal sources.Designed and built a highly customized, state-of-the-art retrieval pipeline that goes far beyond standard RAG approaches.Gained valuable startup experience, contributing to both technical development and strategic product direction.<i>Temporary access can be provided on request for demonstration purposes.</i>	Since Jul. 2024
Erste Group Bank AG/Erste Bank Österreich, Vienna, Austria <u>Data Science / Rating Model Development</u> <ul style="list-style-type: none">Led the design and implementation of a new rating architecture for private individuals, utilizing innovative machine learning techniques for scoring.Developed and deployed models and pipelines within Erste Bank's internal container platform for streamlined development, deployment, and monitoring.Created and maintained IRB and business supporting models using advanced analytics, leveraging various machine learning techniques and Big Data frameworks.	Since Oct. 2019

- Actively contributed to upskilling colleagues in Python, delivering presentations and workshops on PySpark, Big Data methodologies as well as advanced modelling approaches, and fostering cross-team collaboration structures.

Tutor for Econometrics (Master Level) – TU Wien

Jan. 2023 – Jan. 2025

- Provided tutoring and academic support to Master's students in Econometrics, assisting with complex statistical and analytical methods.
- Responsible for reviewing, grading, and providing feedback on student exams and assignments.

Commercial Support – Apotheke von Hirschhausen, Saalfeld/Saale, Germany

Jan. 2019 – Oct. 2019

- Oversaw the rollout of a new merchandise and IT system across three pharmacy locations, including vendor negotiations and project coordination.

Working student & Internships– PwC Austria/Germany

Working Student - Business Development

Nov. 2015 – Oct. 2016

- Developed and maintained an active account management system.
- Supported proposal and bid management for the audit business line.

Internship - Management Consulting

Aug. 2016 – Oct. 2016

- Assisted in the implementation of a Finance Shared Service Center for an international pharmaceutical company's Accounting and Controlling department.

Internship - Consulting and Risk Services

Aug. 2015 – Oct. 2015

- Contributed to change management projects in the energy sector.

Further competencies

Languages

- German
- English

C2/Native
C1

Data Science Tools

- Python (various machine learning, deep learning and Big Data frameworks)
- R (incl. Plotly, Shiny Apps, etc.)
- SAS
- C and C++, CUDA

Big Data & Infrastructure

- PySpark, Dask, Koalas
- Hadoop ecosystem
- Azure and Databricks
- Docker
- Frontend: Node.js, React, Python frontend frameworks (Reflex, Streamlit)

Other

- Authored empirical and statistical analysis chapters for two academic theses as a freelance data consultant.