Dr. Christian Groll

AI & Data Consultant

Data Scientist with 10+ years of experience in building data-intensive applications to automate business processes and create data driven products and services. Proficient in machine learning, deep learning, GenAI and data and software engineering best practices. Capable of designing, developing, testing and deploying scalable applications. Dedicated to lifelong learning and putting data science to good use.

✉ groll.christian.edu@gmail.com

📍 Munich, Germany

▣ quantitative-thinking.com

in linkedin.com/in/christian-groll-a4a804144

🐦 twitter.com/ChrisAndData

○ github.com/cgroll

SKILLS

- Machine learning
- Deep learning
- Data engineering
- MLOps
- Optimization
- Generative AI

LANGUAGES

German
Full Professional Proficiency

English
Full Professional Proficiency

PROGRAMMING LANGUAGES

- Python
- Matlab
- React.js
- R
- Julia

WORK EXPERIENCE

Lead Architect AI
bridging IT
09/2023 - Present
Achievements/Tasks

- Designed and deployed **RAG systems** for multiple clients and projects.
- Trained a **name-matching model** for company name standardization.
- Built an **AI search** system with an **LLM** to consolidate and enforce **style guide compliance** in a pharma CMS.
- Developed a **data platform** for analytical processing and sustainability reporting in retail.
- Created an **AI-powered document processing pipeline** to automate business workflows.
- Developed a prototype **AI agent** to help electricity grid operators navigate internal web apps.

Head of Quantitative Investment Strategy, CIO
Scalable GmbH
10/2015 - 03/2023
Achievements/Tasks

- Developed fully automated, **data-driven investment strategies** managing over €2bn.
- Developed a deep learning **NLP model** for automated **client email classification**.
- Implemented a **discovery engine** based on **collaborative filtering** for retail clients.

Research Assistant
Ludwig-Maximilians-University Munich
05/2011 - 04/2017   *Munich, Germany*
Achievements/Tasks

- Doctoral Thesis: **Dynamic risk management of multi-asset portfolios**
- Conducted research in **risk management, quantitative finance, dynamic factor models, and dependence structures**.

TECHNICAL EXPERIENCE

ML / AI: Sklearn, Pytorch, Tensorflow, Huggingface, OpenAI

CI/CD: git, github actions, Azure DevOps, docker, jenkins, JIRA, Confluence

Data engineering: Airflow, Azure Data Factory, AWS Step Functions, SQL Server, DVC, Parquet, PySpark

EDUCATION

Doctor of Natural Sciences (Statistics / Financial Econometrics)
Ludwig-Maximilians-University Munich
2011 - 2018

Diploma in Financial Mathematics (Grade: 1.3)
Ludwig-Maximilians-University Munich
2004 - 2011