Marius Justus **Theiß**

Finance Data Engineer

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Experience

DHL Group *Bonn, Germany*

Finance Data Engineer *Jan. 2021 - Present*

- Implemented a finance-specific RAG chatbot using LangChain and ChatGPT, providing access to guidelines, timelines and process documentation for finance teams.
- Served as the primary maintainer for an advanced data analytics tool, supporting production forecasting processes and enabling data-driven decision-making.
- Completed multiple time series forecasting projects, optimizing key financial KPIs by using machine learning and statistical models.
- Designed and developed data pipeline workflows, improving efficiency, data quality, and processing speed for finance operations.
- Built a custom Python-based TM1 API wrapper to automate the retrieval of time series data from IBM TM1 reporting servers.
- Transformed an automated finance report filing and creation system impacting approx 300 users when transitioned from iShare to Sharepoint Online with Office365.
- Facilitated internal knowledge-sharing workshops, educating teams on best practices in Python development and machine learning implementation, driving upskilling across the organization.

DHL Group *Bonn, Germany*

Junior Finance Expert *May 2018 - Dec. 2020*

- Central role in Finance IT, acting as an middleman between the controllers and finance systems.
- Build multiple modern financial reports with variable inputs from a IBM TM1 Server inferface.
- Administered the finance data warehouse server in self-service.
- Responsible for multiple process optimization projects using modern workflow tools.

Centre for Finance, Risk- & Resource Management *TU Dortmund University, Germany*

Research Assistant *Oct. 2015 - Sep. 2017*

- Contributed to the chairs publications and assisted in scientific research.
- Caretaker of the chairs intern SQL databases.

Education

Technical University of Dortmund *Dortmund, Germany*

Master of Science in Business Mathematics *Oct. 2010 - Oct. 2017*

- Final grade: 1.5
- Courses taken included: Financial Econometrics, Game Theory, Optimization Methods in Finance.

Thesis

M. Sc. Thesis

A Handful of Factors: The Construction of the Fama-French Five-Factor-Model for the German Stock Market *Oct. 2017*

- The thesis conducts a comprehensive asset pricing study based on Compustat data for the German stock market obtained from Wharton Research Data Services. The research investigates whether a Fama French five-factor model can explain average returns in the German stock market. Furthermore, the study tests the performance of a five-factor model against that of the CAPM, Fama French three-factor model and the Carhart four-factor model. It is shown, that all models perform well on explaining the average returns on portfolios sorted by size and book-to-market ratio. The study provides more evidence that return factors are indeed country specific.

B. Sc. Thesis

Testing the Efficient Market Hypothesis for Soccer Odds in Germany *Jun. 2014*

- The thesis proposed the question if the European market for soccer betting odds was efficient. The research takes a look at the six biggest, most important soccer leagues in Europe and analyzed over 2000 betting odds in the season 2013/14. It is shown, when more bookmakers entered the market the profit margin vanished over the years. The work concludes that arbitrage is almost non-existent and that there are not profitable betting strategies since the market is ex-post efficient.

Skills

Programming	Python, Node.js, R, LaTeX
DevOps	Docker, Jenkins, GitHub Actions
Computer	Linux, Windows, Microsoft Word, Excel, Powerpoint, PowerBI
Languages	German (native), English (fluent), Spanish (A1 level)