

# Marcel Gino Faizi

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## EDUCATION

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<b>Technical University of Darmstadt</b> <i>Master of Science in Computer Science, Minor in Entrepreneurship &amp; Innovation</i>	Darmstadt, Germany Oct. 2021 – Oct. 2024
<b>Goethe University</b> <i>Bachelor of Science in Computer Science, Minor in Economics</i>	Frankfurt am Main, Germany Oct. 2018 – Oct. 2021

## EXPERIENCE

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<b>Data Scientist (Part-time)</b> <i>Inkubator 100 Plus GmbH &amp; Co KG</i>	Dec. 2022 – Present <i>Darmstadt, Germany (Hybrid)</i>
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- Develop and maintain a platform for managing stock portfolios with various strategies
- Conduct comprehensive data analysis using numpy, pandas, and sklearn
- Collaborate on full-stack development, including web interface and backend systems
- Manage Linux servers and infrastructure to support the platform

## PUBLICATIONS

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<b>Korrelationsanalyse von Kryptowährungskursverläufen basierend auf Tweet Sentiment-Analysis</b> <i>Bachelor Thesis</i>	2022
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- Analyzed 4.6 million English tweets containing the keyword "Bitcoin"
- Investigated the relationship between tweet sentiment and Bitcoin returns
- Evaluated and optimized various text classifiers, including CNN and Transformer-based models
- Constructed a meta-model outperforming other models in tweet sentiment classification
- Examined the influence of tweet and author characteristics using distance correlation

## PROJECTS

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<b>GerLegalIR: German Legal Information Retrieval System</b>   <i>Python, PyTorch</i> <a href="https://github.com/MarcelFaizi/gerlegalir">https://github.com/MarcelFaizi/gerlegalir</a>	Feb. 2024 – Aug. 2024
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- Developed a comprehensive IR system for German legal documents, implementing TF-IDF, BM25, and neural approaches
- Utilized advanced NLP techniques including bi-encoders and cross-encoders for improved retrieval accuracy
- Implemented and evaluated multiple retrieval methods, including pretrained, finetuned, and ensemble systems
- Designed a flexible architecture allowing easy integration of new retrieval methods
- Utilized MongoDB for efficient storage and retrieval of evaluation results

<b>TextImager: UIMA-based NLP Framework</b>   <i>Java, JavaScript, UIMA</i> <a href="https://github.com/texttechnologylab/textimager-uima">https://github.com/texttechnologylab/textimager-uima</a>	July 2021 – Sept. 2021
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- Contributed to the development of an advanced UIMA-based framework for natural language processing
- Expanded UIMA backend functionality, improving system flexibility and scalability
- Integrated additional NLP components, broadening the system's analytical capabilities
- Refined web-based frontend to make complex NLP tasks accessible to non-technical users

## TECHNICAL SKILLS

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**Languages:** Python, Java, C++, SQL, JavaScript, HTML/CSS

**Frameworks & Libraries:** PyTorch, TensorFlow, Huggingface, LangChain, NLTK, spaCy, numpy, pandas, sklearn, seaborn, matplotlib, Selenium, BeautifulSoup, Pillow, Django, FastAPI, Spring Boot, React

**Tools & Technologies:** Git, Docker, Linux, AWS, Azure, MongoDB, VS Code, PyCharm, IntelliJ, Jira, Trello

**Areas of Expertise:** Full-Stack Development, Agile Development, Data Analysis, Machine Learning, Natural Language Processing, DevOps, Cloud Computing