



JULIA HAGEN

Data Science Student & Research Assistant

CONTACT

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EDUCATION

B.Sc. Data Science Friedrich-Alexander-Universität Erlangen-Nürnberg

2022 - currently

Avg. Grade: 2,1

- Focus on Artificial Intelligence for Biomedical Engineering

B.Sc. Maastricht Science Programme

Maastricht University

2021-2022

Avg. Grade: 8,6 A+ (German: 1,3)

- Focus on Neuroscience & Computer Science
- MRI Data Analyses with Matlab

B.A. Politics and Economics Westfälische Wilhelms Universität Münster

2018 - 2021

Final Grade: 1,8 , Thesis: 1,0

- Focus on Statistics, Econometrics & Energy Economics
- Thesis on Blockchain and IoT
- Statistical Programming with R

International Baccalaureate - Valedictorian

King William's College, Isle of Man, UK

2017

Final Grade: 41 (German: 1,1)

WORK EXPERIENCE

MACHINE LEARNING & DATA ANALYTICS RESEARCH ASSISTANT

SIEMENS HEALTHINEERS

2022- currently

- Designed and automated ML pipelines for multi-modal predictive maintenance, including training, evaluation, and visualization using PySpark, TensorFlow, PyTorch, Scikit-learn, Plotly, and Matplotlib on Databricks.
- Developed NLP pipeline for anonymizing customer service data and integrating Transformer models for downtime prediction
- Responsible for Retrieval Augmented Generation (RAG) component of internal hackathon, providing setup tutorials and ready-to-use datasets
- Regularly presented work within the international Siemens community.

DATA ANALYTICS & RESEARCH ASSISTANT

ICM INVESTMENT BANK AG

2019 - 2022

- Predictive and prescriptive analytics on data from various sources incl. the Bloomberg Terminal
- Creating weekly and bi-monthly publications.

INTERN DIPLOMATIC ASSISTANCE

2020 - 2021

CENTRAL AMERICAN PARLIAMENT PARLACEN

- Assisted Dr. Ricardo Lagos Andino, Ambassador of the Republic of Honduras at major conferences like the OECD & NATO Parliamentary Assembly.
- Publishing and communicating in Spanish, English, and German.

SKILLS

Python for Data
Analytics

pandas, Visualisation libraries

Python for ML
PyTorch, TensorFlow, scikit-learn

SQL

Matlab
medical imaging toolbox

Microsoft Office

Java