Johannes M. Burr

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Summary

Machine Learning Engineer with expertise in Statistics, Deep Learning and Artificial Intelligence.
Experience in agile Software Engineering using Python and following best practices. Proven record of successfully driving each step of the Data Science project circle from Conceptualization, Data Engineering, Modeling, Training and Optimization, to Deployment and Evaluation.

Education

M.Sc. Data Science
Dortmund

Technische Universität Dortmund
2019 - 2023

- Grade: 1.2
- Courses: Machine Learning, Natural Language Processing, Algorithms and Data Structures
- Thesis: Thesis: SQL Code Embeddings - Integrating Syntactical Information into Transformer Models (1.1)

Statistics and Operations Research
Barcelona

Universitat Politecnica de Catalunya
2021 - 2022

- Erasmus Exchange

B.Sc. Psychologie
Bamberg

Otto-Friedrich Universität
2015 - 2018

- Grade: 1.5
- Focus on Cognitive Science, Statistics, and Research
- Thesis: Trust in Artificial Intelligence (1.0)

Experience

SAP
Walldorf

Master Thesis Student
08/2022 - 02/2023

- Review of state-of-the-art methods for Natural Language Processing
- Implementation of Transformer models and training on GPU instances of Azure Cloud
- Finetuning the model on real SQL workloads to use for Bug Localization

SAP
Walldorf

Machine Learning Engineer - Working Student
04/2022 - 08/2022

- MLOps Development in agile, cross-functional team
- Improved the ML model, which reduced number of uncertain classifications by a factor of 10 while remaining faithfulness of the signal

Intel Labs
Karlsruhe

Intern
05/2021 - 10/2021

- Implemented Deep Learning based Object Detection for Autonomous Vehicles and integrated it into an existing Monitor framework
- *Publication:* Buerkle, Oboril, *Burr*, Scholl (2022). Safe Perception – A Hierarchical Monitor Approach. IEEE 25th international conference on intelligent transportation systems (ITSC)

Chair for Artificial Intelligence
Dortmund

Junior Researcher
05/2020 - 04/2021

- Implementation of Neural Architectures in PyTorch and experimental comparison on various data sets

Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), Shell, R, SQL
Tools	Linux, Git, Jenkins, Jira, LaTex, Docker, Azure, AWS Sagemaker
Soft Skills	Analytical Thinking, Communication, Engaging Presentations
Languages	German (native speaker), English (fluent), French (intermediate), Spanish (basics)