Jonas Faßbender

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Research Interests

I am interested in Machine Learning, especially focused on Conformal Prediction, predicting with certainty and how to implement Machine Learning models efficiently. I am passionate about high performance computing and high availability architectures.

Professional Experience

2020 - now	Independent Software Engineer. Mainly working on a modern insurtech platform/insurance broker focused on vehicle insurance for carpolice.de.
2018 - 2019	Data Scientist and Programmer, RLE International. Mostly Image, Text Recognition and Data Sanitation tasks. We also worked within the domain of Computer Graphics (mesh-based CAD formats and parsing tools).
2015 - 2016	Small Business System Administrator, Lieb EDV Beratung. Main focus were Backup Systems and Windows Server administration for several small businesses.

Education

2019 - 2020	MSc High Performance Computing with Data Science, University of Edinburgh. Thesis: Deep Learning on SpiNNaker Modules include: Probabilistic Modeling and Reasoning, Advanced Message Passing Programming, Data Analytics with High Performance Computing and Extreme Computing
2016 - 2019	BSc Computer Science, Technical University of Cologne Thesis: Approximating the Optimal Threshold for an Abstaining Classifier based on a Reward Function with Regression Modules include: Algorithms, Artificial Intelligence, Discrete Mathematics/Cryptography, Distributed Systems, Software Engineering and Theoretical Computer Science

Technologies

Programming languages	Julia, Python, Rust, Dart, Fortran, C, JavaScript, Go, Bash, Java
Machine Learning libraries and frameworks	scikit-learn, Keras, Tensorflow, OpenAI Gym
Distributed and parallel programming	MPI, OpenMP, POSIX Threads, RabbitMQ, Apache Kafka, tokio-rs
Visualization and graphics	Flutter, HTML, CSS, tikz, Matplotlib, Unity3D, WebGL2, OpenGL 3.0
Others	LaTeX, Kubernetes, Docker, Git, Numpy, Node.js, OpenSUSE (Linux), SQL, UML