NOAH C. PUETZ

Master Student – Automation and IT

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WORK EXPERIENCE

University of Applied Sciences Cologne
2022-2023

Research Assistant at the Institute for Data Science, Engineering, and Analytics
Support for the further development of the 'Sequential Parameter Optimization Toolbox' (SPOT) and its extension for hyperparameter tuning via 'keras/tensorflow'.

BMW Motorrad, Berlin
2021-2022

Virtual and Augmented Reality Internship
Planning and initiating a change management process for the productive applications of Virtual and Augmented Reality tools in the early status of the development process.

Siemens Technology, Munich
2020-2021

Artificial Intelligence Research Internship
Research on methods of artificial intelligence and their potential to enhance production systems. Developing a proof of concept for an artficial intelligence in production control.

University of Applied Sciences Cologne
2019-2020

Information Technology Tutor
Teaching C++, especially for programming a microcontroller. Assissting the professor in developing new and better technics for IT-teaching.

EDUCATION

University of Applied Sciences Cologne
2021-2023

Automation and IT (Master of Engineering)
Focus: Machine Learning and Data Science
GPA: 1,9

University of Applied Sciences Cologne
2017-2021

Production and Logistics (Bachelor of Engineering)
Focus: Production and Automation
GPA: 1,5

DBG, Bergisch Gladbach
2007-2015

Abitur
Grade: 2,1

PROJECTS

University of Applied Sciences Cologne
2022-2023

Distributed wind speed analysis system for rural areas
In cooperation with the Tanzania Research Fund. Supervised by Prof. Dr. Felix Hackelöer & Prof. Dr. Michael Freiburg.

University of Applied Sciences Cologne
2021-2022

Data Science Platform
Conceptual design and interdisciplinary development of a web platform for data engineering and analysis hosted by streamlit.

Siemens Technology, Munich
2020-2021

Multi Agent Reinforcment Learning (Bachelor Thesis)
Implementing an Online Scheduling Approach for Production with Multi Agent Proximal Policy Optimization (MAPPO). DOI: 10.1007/978-3-030-85914-5_62

University of Applied Sciences Cologne
2019-2020

Adverserial Attacks on a Traffic Sign Recoginiton AI
Attacking an AI based on the German Traffic Sign Recognition Benchmark (GTSRB) dataset using the Fast Gradient Sign Method (FGSM).

EXPERTISE

- **Machine Learning**
  Tensorflow, Keras, Scikit-Learn
- **Programming**
  Python (Pandas, Numpy, Streamlit), R, GIT
- **Languages**
  German (Native), English (Fluent)
- **Simulation**
  Technomatix, Unisim, Scilab
- **Engineering**
  CAD, IoT, Project and Change Management