

Johannes Knauer

Leimhüll 12, 96114 Hirschaid
knauer.jk@gmail.com
linkedin.com/in/jk05
www.thejk.de

EDUCATION

- 2018 - 2022 **Technical University of Nürnberg** BEng Electrical Engineering and Information Technology
- Graduation in July 2022, GPA 1.9 (Germany)
 - Project on Website development and network security
 - Dissertation on 'Evaluation of analysis data from medical imaging software using data mining methods'
- 2016 - 2018 **Technical College Mechatronics of Herzogenaurach** Engineer in Mechatronics, A levels
- Top of the year, GPA 1.38
 - GPA 1.47 (Fachhochschulreife)
 - Building and programming a R2D2 with technologies like 3D-Print, Microcontroller, Arduino, C++ and Android

WORK EXPERIENCE

- 2021 - 2022 **Bachelor Dissertation, Siemens Healthcare GmbH, Software Engineering, Forchheim**
- Apply, compare and evaluate different machine/deep learning methods to find relevant features that favour the occurrence of software exceptions (→ make algorithms interpretable)
 - Working with a million-large dataset and using technologies like Python, SQL, Scikit-Learn, Tensorflow, Jupyter Notebook and Excel
 - Spotted possible improvements in the software design and the software testing routine
- 2019 - 2021 **Working Student, Siemens Healthcare GmbH, Software Engineering, Forchheim**
- Development of components for automatic software test evaluation
 - Participation in an international working group
 - Multiple presentation of work results via KPIs, Reports and Dashboards
 - Using technologies like Python, PowerBI, MS SQL Server, MongoDB, Azure DevOps and C#

PROGRAMMING EXPERTISE

- 2022 **NBA - MVP and Champion Prediction, Side Project**
- Three months of development using Python, MongoDB Cloud and PowerBI
 - Published on GitHub and on my website www.thejk.de
- 2021 **Stock Portfolio Tracker, Side Project**
- Three months of development using Python, MongoDB and PowerBI
- 2021 **Machine Learning, Lecture Courses at Technical University of Nürnberg**
- Content: Statistics, Machine Learning, Algorithms, Deep Learning, Neural Networks, Evaluation, Supervised Learning, Unsupervised Learning, Clustering, Outlier Detection
- 2021 **Programming a Website, Project at Technical University of Nürnberg**
- Six month of development using Docker for the deployment of: Frontend-React, API-Python, Backend-MongoDB, Version Control System: Git/GitHub
- 2020 - 2021 **Traineeship, Projects at Siemens Healthcare GmbH**
- Two months of comparing two BI-Tools (PowerBI vs Qlik Sense)
 - Four months of developing an automated reporting pipeline for software testing results using Python, MongoDB and PowerBI

SKILLS & INTERESTS

Languages	German (native), English (fluent)
Technology	Python, SQL, PowerBI, Scikit-Learn, Tensorflow, MongoDB, Git/GitHub, Java, Docker, Teams
Interests	Machine Learning, Data Analysis, Economics, Astronomy, Chess