JOHANNES KNAUER

in [LinkedIn](#) | +49-170-1234567 | [TheJK.de](#) | email@gmail.com | [GitHub](#)

Skills

- Microsoft Fabric | Power BI | Azure | Python | SQL Server | PySpark | Spark SQL | NoSQL | PowerShell | Git | APIs | Machine Learning
- SAP Data Processing | ETL/ELT | Data Warehouse/Lake | Data Analysis & Modeling | Data Quality | Business Intelligence | Data Science
- Data Automation, (KPI) Monitoring & Alerting | CI/CD | Cloud Computing | German, English – *All professional proficiency or above*

Experience

Data Engineer/Analyst — [Schaeffler](#) — *Nuernberg, Germany* — 11/2022 - Current

- **Led the management, monitoring, and support of the Fabric/Power BI tenant**, ensuring high performance and reliability for individual business domains and serving a total of over 30,000 unique users per month.
- Designed and implemented **end-to-end data products** for various business units, optimizing ETL/ELT processes and refining data models to provide valuable insights through Power BI analysis, while utilizing cutting-edge **Microsoft tools like Data Pipelines, Dataflows, Notebooks, Warehouse, Lakehouse, Key Vault, Logic App, and MS Graph.**
- Led the development of fully automated monitoring and alerting solutions for the Fabric/Power BI tenant, applying best-practice data engineering across both Azure and Fabric environments, **resulting in a 10x increase in data volume, quality, and security.**
- Designed and implemented new guidelines, standards, and templates for **executive-level Power BI reporting**, resulting in a 200% improvement in cost efficiency and performance.
- Created data products through CI/CD processes in isolated Dev/Test/Prod environments, employing medallion architecture to ensure high data quality and efficient integration across all stages.
- **Mentored and trained colleagues** in data engineering and analysis, enabling users - from beginners to advanced - to boost their skills and succeed in projects.

Software Engineer, Part-Time — [Siemens Healthineers](#) — *Forchheim, Germany* — 06/2019 - 08/2022

- Implemented and improved automated software tests for medical imaging application using PowerShell, C#, and Azure DevOps.
- Orchestrated the development of dynamic ETL processes to store test results in both relational and non-relational databases, utilizing technologies such as **Python, SQL Server, and MongoDB.**
- Utilized **machine learning and deep learning techniques** to evaluate test results, creating data-driven KPIs and visualizations to facilitate better decision-making. Key technologies: Python, Scikit-Learn, TensorFlow, Power BI, Qlik Sense.

Projects

NBA Champion Prediction — 04/2022 - Current

- Published a [blog series](#) predicting the NBA basketball champion each year using machine learning, with results visualized in a metric-based format that is easy for the general public to understand.
- Featured in a [YouTube video](#) [5:38 min] by JxmyHighroller, a channel with over 2.5 million subscribers, which led to collaborating with data enthusiasts worldwide to refine the concept of predicting sports champions using data.
- Worked with a variety of tools and technologies, including Medium, Python, Git/GitHub, Pandas, Scikit-Learn, MongoDB, and Power BI.

Programming Website — 06/2021 - 12/2021

- Designed and developed a website as part of a small, agile team that serves as the virtual counterpart of a team cash box, allowing users to view contributions and make online payments via PayPal.
- Utilized Docker for deployment, JavaScript-React for the frontend, Python-Flask for the API, MongoDB for the backend, and Git/GitHub for version control.

Education

Bachelor of Engineering — [Technical University Nuernberg](#) — *Nuernberg, Germany* — 10/2018 - 08/2022

- Major in Electrical Engineering and Information Technology.
- Dissertation on 'Evaluation of analysis data from medical imaging software using data mining methods'.