

SEBASTIAN NAGEL

Data Scientist

📍 München

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🐙 [/does-not-compile](https://github.com/does-not-compile)

About me

Curious data scientist with 2+ years of experience of transforming client problems into data science solutions. Having made the switch from 4+ years of biomedical research, I bring a detail-oriented combination of technical expertise and scientific approach, helping my team solve complex problems and delivering insights that drive progress.

So, let's work together and make the world a more data-driven place!

Work History

03/2023 – present

Data Scientist

ERIUM GmbH – Garching bei München (Hybrid)

- Built and deployed scalable video-to-workinstruction pipeline, reducing time to first draft by approx. 80%
- Built and integrated custom RAG Chatbot for shopfloor worker-assistance-system
- Contributed to Agentic AI Code Reviewer system able to review PRs by Junior SWEs
- Regular contact with clients to define Problems, Goals, and Metrics, and to deliver Progress Reports, MVPs, Prototypes, and Products

10/2022 – 01/2023

Trainee Data Science

neuefische – School and Pool for Digital Talent (Remote)

- Final Project: Successfully trained a CNN to be able to predict Guitar Tab Notation from audio input (GitHub: ["swizzle" - AI powered music notation of songs](https://github.com/swizzle-ai/swizzle-ai))
- 540 hours of hands-on programming practice with team-based development of a four-week-project as capstone project.
- Applied technologies and tools: Python (Pandas, NumPy, SciPy, Scikit-learn, TensorFlow, XGBoost, FastAPI, Matplotlib, and others), Jupyter Notebooks, SQL, UNIX, Git, Agile Methods.

01/2022 – present

Freelance Scientific Advisor

LabForward (Remote)

- Advisory, Data Cleaning, and Customer Success services in the context of developing a voice-controlled, AI-powered Laboratory-Assistant

02/2018 – 11/2021

Research Scientist

Institute of Pharmacology and Toxicology, University Medical Center Göttingen – Göttingen

- Developed biological model for myocardial infarctions in engineered human myocardium (EHM) utilizing a sterile organ bath system
- Automated data acquisition, processing, and visualization using Python, C++, and BASIC
- Statistical analysis and presentation of data in regular institute meetings
- Teaching, tutoring, and supervision of rotational students' projects

Skills

General

- Data Science, Data Visualization and Communication, Machine Learning, Deep Learning, GenAI, Project Management, Software Development, Agile Methods, Rapid Prototyping

Technical

- Python (libraries: scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, SciPy, Matplotlib/Seaborn, FastAPI, Streamlit)
- Docker
- git
- SQL
- Microcontrollers (Arduino: C++, RPi: Python)
- SCSS, HTML
- JavaScript

Languages

- German (native), English (fluent)

Personal interests

- Piano & Guitar, Sailing, Exit Rooms

Education & Certificates

09/2022

IBM Machine Learning Professional Certificate

coursera.org

- Exploratory Data Analysis, supervised and unsupervised Machine Learning, Deep Learning, and Reinforcement Learning using Python
- Final grade: 99.5 %
- Link to capstone project (Recommender System): github.com
- Link to Certificate: coursera.org

04/2022

Google Data Analytics Professional Certificate

coursera.org

- Data aggregation, exploration, cleaning, processing, statistical analysis, and visualization using SQL, R, and Tableau
- Final grade: 99.9 %
- Link to case study (Shared Bicycle User Analysis): kaggle.com
- Link to Certificate: credly.com

10/2015 – 09/2017

Master of Science in Molecular Medicine

Georg-August-University Göttingen – Göttingen

Final grade: 1.5

10/2012 – 09/2015

Bachelor of Science in Molecular Medicine

Georg-August-University Göttingen – Göttingen

Final grade: 2.0

München, 30. June 2025

place, date



Sebastian Nagel