



Daniel Netzl

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AI researcher & data scientist focused on building socially beneficial and sustainable technologies.

Technical Skills

Programming & Data: Python, R, SQL, Bash

Machine Learning & AI: PyTorch, TensorFlow, LSTM, Transformers, Reinforcement Learning (PPO, DQN, GAE), Autoencoders

Data Science & Analytics: Pandas, Polars, NumPy, SciPy, RDKit, Feature Engineering, Association Rules

Explainable AI (XAI): SHAP, Latent Space Analysis, Feature Attribution, Model Visualization

Bioinformatics & Chemoinformatics: P2Rank, ReactionT5, SMILES, Fréchet ChemNet Distance, QSAR

Data Visualization: Dash, R Shiny, Power BI, Tableau, Flask, Plotly, Matplotlib, Network Analysis

DevOps & Deployment: Docker, CI/CD, REST APIs, AWS (S3, EC2), Azure, Linux

Web & Automation: Selenium, HTML/CSS, Git, Requests, BeautifulSoup

For real-world applications of these tools in 20+ diverse projects, visit danielnetzl.com.

Professional Experience

Siemens AG Österreich

Data Scientist, 30hrs/week

Vienna, Austria

August 2022 – Present

- Designed and maintained data pipelines for urban development and energy projects.
- Built interactive dashboards (Dash, Plotly, R Shiny) to monitor smart city and financial KPIs.
- Led end-to-end data projects, translating stakeholder needs into technical solutions.
- Automated data validation and integrated CI/CD workflows for reproducible analytics.
- Deployed predictive models on remote servers with scheduled data ingestion.

BG/BRG Keimgasse

Informatics High School Teacher, 15hrs/week

Mödling, Austria

September 2021 – December 2022

Learn4Life OG

Tutor in Spanish, Accounting, and Informatics

Bruck/Leitha, Austria

October 2016 – June 2022

Education

Johannes Kepler University

Master of Science, Artificial Intelligence

Linz/Donau, Austria

October 2023 – Expected December 2025

Columbia University

Admitted to Master of Science, Data Science

New York City, United States

March 2024

IMC University of Applied Sciences

Bachelor of Science, Informatics/Data Science (with distinction)

Krems/Donau, Austria

June 2020 – June 2023

Community Engagement & Volunteering

Local Development Association

Board Member

Göttlesbrunn, Austria

January 2025 – Present

- Leading initiatives to promote biodiversity and revitalize local green spaces.

Local Youth Club

Board Member & Treasurer

Göttlesbrunn, Austria

January 2016 – December 2022