



# Daniel Netzl

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

## Professional Experience

<b>Formunauts GmbH</b> Data Scientist, 38.5hrs/week	Vienna, Austria November 2025 – Present
<b>Siemens AG Österreich</b> Data Scientist, 30hrs/week	Vienna, Austria August 2022 – October 2025
<ul style="list-style-type: none"><li>Designed and maintained data pipelines for urban development and energy projects.</li><li>Built interactive dashboards (Dash, R Shiny) and led automated end-to-end data projects</li></ul>	
<b>BG/BRG Keimgasse</b> Informatics High School Teacher, 15hrs/week	Mödling, Austria September 2021 – December 2022
<b>Learn4Life OG</b> Tutor in Spanish, Accounting, and Informatics	Bruck/Leitha, Austria October 2016 – June 2022

## Technical Skills

<b>Programming &amp; Data:</b> Python, R, SQL, Bash	<b>Bioinformatics &amp; Chemoinformatics:</b> SMILES-based Modeling, Reaction Prediction, QSAR Modeling, Binding Site Classification, Molecular Representations, P2Rank, RDKit
<b>Machine Learning &amp; AI:</b> Generative Models (LSTM, VAE), Reinforcement Learning (PPO, DQN, GAE), Transformer Models (Seq2Seq, Attention), CNNs, Autoencoders, Continual Learning, Model Ensembling	<b>Data Visualization:</b> Dash, Plotly, R Shiny, Power BI, Tableau, Matplotlib, Network Graphs
<b>Data Science &amp; Analytics:</b> Data Processing, Feature Engineering, Clustering, Dimensionality Reduction, Association Rules	<b>DevOps &amp; Deployment:</b> Docker, CI/CD Pipelines, REST APIs, Linux, AWS (S3, EC2), Azure, Systemd Services, Server Monitoring
<b>Explainable AI (XAI):</b> SHAP, Saliency Maps, Latent Space Probing, Feature Attribution	<b>Web &amp; Automation:</b> HTML/CSS, Flask, Git, Requests, Selenium, BeautifulSoup

For real-world applications of these tools in 20+ diverse projects, visit [danielnetzl.com](http://danielnetzl.com)

## Education

<b>Johannes Kepler University</b> Master of Science, Artificial Intelligence	Linz/Donau, Austria October 2023 – Expected December 2025
<b>Columbia University</b> Admitted to Master of Science, Data Science	New York City, United States March 2024
<b>IMC University of Applied Sciences</b> Bachelor of Science, Informatics/Data Science (with distinction)	Krems/Donau, Austria June 2020 – June 2023

## Community Engagement & Volunteering

<b>Local Development Association</b> Board Member	Göttlesbrunn, Austria January 2025 – Present
<ul style="list-style-type: none"><li>Leading initiatives to promote biodiversity and revitalize local green spaces.</li></ul>	
<b>Local Youth Club</b> Board Member & Treasurer	Göttlesbrunn, Austria January 2016 – December 2022