

XAVIER DELFOSSE

Data Scientist & Life Science Engineer

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EXPERIENCE

Independent Contractor: Machine Learning and Data Science Specialist & Lead Data team

Tradepedia

- May 2024 – July 2025 Remotely
- Designed and developed a reinforcement learning-based model for stock market analysis and prediction.
 - Deployed MLflow for model tracking and versioning; served models via custom FastAPI endpoints.
 - Mentored junior data scientists and managed team collaboration via GitHub.
 - Assumed project management responsibilities, including backlog and roadmap planning.

Bioprocess Development Scientist

Securecell AG

- Oct 2021 – August 2024 Urdorf, ZH
- Developed and tested automated control strategies for mammalian and microbial cell cultures using real-time process data.
 - Integrated convolutional neural networks and machine learning models into bioprocess pipelines.
 - Authored and executed validation test plans for new bioprocessing products.
 - Led various bioprocess experiments (cell culture and fermentation) and contributed to the Bioprocess 4.0 product roadmap.

THESIS PROJECTS

- Master Thesis**
- “Implementation and usage of an electronic nose for the monitoring of bioprocesses,” 2024.
- Bachelor Thesis**
- “Characterization, optimization, and validation of an autosampling unit for microbial fermentation processes,” 2021.

LANGUAGES

French English German

EDUCATION

- Ph.D. in Life Sciences
HES-SO Valais Wallis / Karlsruhe Institute of Technology
2026 – 2029 Sion
- M.S. in Applied Computational Life Sciences
Zurich University of Applied Sciences
2021 – August 2024 Wädenswil

- B.S. in Life Science Technologies option Biotechnology
HES-SO
2018 – 2021 Sion

HOBBIES

- Sports**
Bouldering, Biking, Roller Skating and Calisthenics
- Games**
Competitive and certified judge for Pokémon TCG (2009–2022)
- Others**
Homebrewer, hobbyist with Arduino and Raspberry, 3D printing

SKILLS

- Python R SQL Matlab PyTorch
TensorFlow Scikit-learn ML DL
RL NLP LLMs LangChain Langflow
MARL MLflow Git
- MODDE LabX Lucullus USP DSP
PAT HPLC GC fermentation cell culture
PCR
- Team leadership project ownership
Science Communication analytical thinking