

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.

Internship: Scientist in Quality Control

Société Suisse des Explosifs

- 2017 – 2018 Gamsen, VS
- Worked daily as a Lab Scientist in a GMP environment.
 - Led the integration of online analysis tools into the quality control lab's workflows.

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.

EDUCATION

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 Lucillus USP DSP
PAT HPLC GC fermentation cell culture
PCR

Team leadership project ownership
Science Communication analytical thinking

LANGUAGES

French English German