

XAVIER DELFOSSE

Data Scientist & Life Science Engineer

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Lausanne, Switzerland



EXPERIENCE

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

Tradepedia

May 2024 – Ongoing

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

