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 - 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

1 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

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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

1 2018 - 2021

Sion

HOBBIES

4HF

Sports

Bouldering, Biking, Roller Skating and Calisthenics



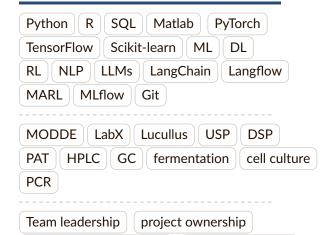
Games

Competitive and certified judge for Pokémon TCG (2009–2022)

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Homebrewer, hobbyist with Arduino and Raspberry, 3D printing

SKILLS



LANGUAGES

Science Communication

French English German



analytical thinking