## **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

**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

### 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** 

B.S. in Life Science Technologies option Biotechnology

**HES-SO** 

**1** 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**



### **LANGUAGES**

French English German

