XAVIER DELFOSSE

Data Scientist & Life Science Engineer

@ xavier@windyplace.ch   📍 Lausanne, Suisse   🔗 xavier-delfosse-9a62731ba   ⌨ delfoxav

EXPERIENCE

Independant Contractor: Machine Learning and data science specialist & Lead Data team

Tradepedia

📅 May 2024 – Ongoing   📍 Remotely

- Development of a machine learning RL based model for analysis and prediction of stock markets
- Implementation of MLflow on our platform, maintenance of models, and serving using a custom FastAPI
- Training of younger data scientists
- Maintenance of github repositories
- Took over the responsabilites of Project Manager

Bioprocess Development Scientist

Securecell AG

📅 Oct 2021 – August 2024   📍 Urdorf, ZH

- Designed and tested new automatic control strategies for cell culture based on process data.
- Worked in the System Development team in collaboration with Systems Engineers.
- Acted as the "voice of the customer" for the development of new products.
- Integration of CNN and ML models in our bioprocess pipelines.
- Wrote and performed the test plan for validation of new products related to bioprocess.
- Was in charge of different cell culture and fermentation processes.
- Highly involved in the design and test of bioprocess 4.0 product

Internship: Scientist in Quality Control

Société Suisse des Explosifs

📅 2017 – 2018   📍 Gamsen, VS

- Daily work as a Lab Scientist in a GMP environment
- Was in charge of the integration of the Laboratory's online analysis integration

RESEARCHES

📄 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

B.S. in Life Sciences Engineering

EPFL

📅 2015 – 2017   📍 Lausanne

HOBBIES

Sports
Bouldering, Biking, roller skates and soon runner

Games
Player and Judge of the Pokemon TCG game from 2009 to 2022

Others
Homebrewer, hobbyist with Arduino and Raspberry, 3D printing

SKILLS

Hard-working   Eye for detail   Motivator   Leadership   popularization   Python   Matlab   R   SQL   duckdb   Pytorch   Tensorflow   Keras   Scikit-learn   Numpy   MLFlow   XGBoost   Darts   Stables-Baselines 3   Pandas   XGBoost   Gymnasium   Dask   minIO   coiled

Latex   MODDE   LabX   Lucullus PIMS

LANGUAGES

French
English
German