




Auguste Baum

MSc graduate in Data Science at EPFL

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Work Experience

- July 2023 – October 2023 **Participant in Summer of Nix 2023**, NixOS Foundation, Paris (remote).
- Developed Nix package and module for open-source projects, of which Pretalx and Rosenpass.
 - Experienced mob programming, a low-latency work technique enabling fast skill improvement.
- Sept. 2022 – March 2023 **AI research intern**, Swisscom Digital Lab, Lausanne.
- Conducted a research project on explainability of neural networks for big-data tabular datasets.
 - Developed reproducible research pipeline system using pytask.
- Co-founder & CTO**, Resilio, Lausanne.
- Built the backend of Resilio Tech, an LCA tool for digital sobriety consultancy, in Django.
- Digital Sobriety consultant**, Zero Emission Group, EPFL, Lausanne.
- Developed automatic PowerPoint pipeline in Python, speeding up the auditing process by 30%.
 - Co-authored reports on environmental impact of digital technology in multinational companies.

Education

MSc Data Science, EPFL, Lausanne.

ML, information security and big data methods. MSc thesis on Explainable AI.

Projects

MSc project: “Path regularization for continuous counterfactual explanations”, Swisscom & EPFL, Lausanne.

Developed a novel generative model regularization technique to produce high-quality explanations of deep neural network predictions. Supervised by Prof. Pascal Frossard and Dr Daniel Dobos.

Machine learning project: “Automatic detection of available area for rooftop solar panel installations”, EPFL, Lausanne.

Built a neural network model to detect the empty space on rooftops in satellite images.

BSc project: “Machine Learning methods for Property Prediction”, UCL, London.

Reviewed recent approaches to chemical property prediction with machine learning.

Languages

English and French (native), Spanish (B2), Japanese (basic)

Technical Skills

Haskell

Scala

Python

Java

PyTorch

Spark

Git

Vim

Rust

Nix

Golang

Matlab

Mathematica

Sage

HTML/CSS

Django

(Last updated: 2023-10-06)