



Luca Nyckees

Born on 27/08/1999

Data Scientist & Machine Learning Engineer

Ms. of Mathematics

EPFL

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[GitHub](#)

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[portfolio](#)

SUMMARY

I am a data scientist with a 4 years work experience in machine learning research, data science projects and data engineering, and a Ms. in mathematics from EPFL. I am looking for opportunities where I can bring and build on this experience, in an environment offering both growth and continuous learning perspectives.

WORK EXPERIENCE

Data Scientist

Aug. 2022 - Oct. 2024

Quanthome SA

Lausanne, Switzerland

- Led and delivered 6 machine learning projects, supervised a team of 4 scientists, collaborated with UNIL's CRML lab.
- Head of machine learning operations (complete ML models life cycle: validation, versioning, monitoring, deployment).
- Contributed to the development of platform ideas and features tailored to client needs, enhancing business offering.

Data Science Intern

Dec. 2020 - Feb. 2022

Laboratory of Topology and Neuroscience of EPFL

Lausanne, Switzerland

- Analyzed COVID-19 contact tracing data using topological, statistical and graph data analysis methods.
- Conducted research and development in the field of topological data analysis ([arXiv preprint](#)).

Teaching Assistant

Sept. 2019 - June 2022

Mathematics Department of EPFL

Lausanne, Switzerland

- Performed teaching duties for 1st, 2nd, and 3rd-year courses for the informatics and mathematics departments.

EDUCATION

Master of Science	Mathematics	Ecole Polytechnique Federale de Lausanne (EPFL)	2020-2022
Bachelor of Science	Mathematics	Ecole Polytechnique Federale de Lausanne (EPFL)	2017-2020

SELECTION OF PROJECTS

LLM-Powered Product Recommendation System

2024

Implementing a LLM-powered recommendation system for Amazon products, with complete ML life cycle and workflow.

[GitHub](#)

Optimization Framework for Topological Metrics

2020

Creating a TensorFlow framework for computing a class of topological metrics, with applications to image classification.

[GitHub](#)

Statistical Analysis of Meteorological Data

2021

Developing a web application including an interactive dashboard for analyzing and forecasting meteorological data.

[GitHub](#)

Graph Label Prediction for Image Classification

2020

Implementing a weak-supervised graph-based learning algorithm with applications to image classification.

[GitHub](#)

TECHNICAL SKILLS

Programming Languages: Python (excellent), SQL (excellent), C++ (familiar), JavaScript (familiar)

DevOps/MLOps: CI/CD, Github Actions, Pytest, Docker, Apache Airflow, MLFlow, FTP server, OpenSSH

Databases: PostgreSQL (PostGIS), data warehousing principles, ETL, SQLite, Snowflake, Neo4j

Data Processing/Data Analysis: Pandas, Spark, Polars, GeoPandas, Numpy, Dash, Matplotlib, Plotly, Pyvis, NetworkX

Machine Learning (ML, Deep Learning, Gen AI, LLMs): Pytorch, TensorFlow, Keras, Scikit-learn, Scipy, Hugging Face, LangChain, OpenAI, RAG

APIs: REST, Flask, FastAPI

LANGUAGES

French (mother tongue), English (fluent), Italian (fluent), German (basic)

REFERENCES

Félix Arbez-Gindre: CTO at [Quanthome SA](#) | f.arbez-gindre@quanthome.com

Prof. Kathryn Hess-Bellwald: Head of the [Lab of Topology and Neuroscience at EPFL](#) | kathryn.hess@epfl.ch