





# Taha ZAKARIYA


Data Science intern at LOGITECH

## CONTACT

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 B permit, driver's license holder



## SKILLS

- Programming:
  - Proficient: Python, Pytorch, ETL.
  - Intermediate: Java, SQL, Git, Scala, R, Latex.
- Software: Jupyter, Eclipse, VSC, PyCharm, DataGrip, Docker, Google Colab, Microsoft Office.
- Soft skills:
  - Teamwork with a good sense of leadership.
  - Autodidact with strong adaptability, reliability and eager to learn.
  - A good sense of problem-solving and decision-making.

## LANGUAGES

English : Fluent

French : Bilingual

Arabic : Native

## MAIN COURSES

Applied Data Analysis, Machine learning, Deep learning, Statistics for data science, Algorithms, Introduction to NLP, Stochastic models, Introduction to database systems, Functional programming

## PROFILE

I am a Data Science master's student at EPFL, currently completing my master's thesis at Logitech. I'm seeking a full-time position in Data Science starting from April onwards.

## WORK EXPERIENCE

**Data Science Intern** - Logitech  
Switzerland, 09/2023 - present



- Working on a project which aims to predict if a consumer is likely to buy a Logitech product. The goal is to work on the explainability of the model to drive the delivery of a personalized and dynamic experience to Logitech consumers.

**Data Science Intern** - Nestle Research and Development  
Switzerland, 02/2023 - 08/2023



- Applied advanced data analytics (statistics, ML) in identifying environmental conditions and microbiota differences/signatures that associate with multiple events and conditions of interest (Explainable AI).
- Improved previous work through the implementation of new data processing techniques and predicting pipeline.
- Developed and deployed a website to facilitate the data analysis of microbiome datasets and perform AI predictions for microbiologists with non-technical background using Streamlit, Docker and Google Cloud.

**Analysis and physics teaching assistant** - EPFL  
Switzerland, 09/2020 - 12/2022



- Assisted 100+ first year students to understand theoretical concepts of maths and physics.

## EDUCATION

**Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland**  
2021 - now

- Master's in Data Science with a minor in Management, Technologies and Entrepreneurship

**Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland**  
2018 - 2021

- BSc in Communication Systems

## PROJECTS

### • Research project:

- Processed 3D neurons data, tested the effect of the segmentation task of neurons detection on Vaa3d using a U-net network, and implemented other state-of-the-art networks in Pytorch (ResUnet, Ce-Net...).

### • Applied data analysis projects:

- Investigated the correlation between the news and Bitcoin's historical data using a 178 million quotes data set (Pandas, NLP)

### • Machine learning projects:

- Predicted the context that fits a question (SQuAD dataset) using multiple NLP techniques (Transformers).
- Implemented a Noise2Noise model which is an image de-noising network trained without a clean reference image (Pytorch).