Taha ZAKARIYA
DATA SCIENCE MASTER STUDENT AT EPFL

CONTACT

Chemin des Triaudes 7,
Ecublens, Switzerland

+41 78 633 46 03

taha.zakariya@epfl.ch

linkedin.com/in/tahazakariya/

SKILLS

- Programming languages:
  - Proficient: Python, Latex.
  - Intermediate: Java, SQL, Git, Scala.

- Software: Jupyter, Eclipse, VSC, PyCharm, DataGrip, VMware, 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 finishing an internship at Nestle R&D. I'm seeking a master thesis project in the ML/AI field starting from September/October.

EXPERIENCE

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

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

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

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

Research student assistant - Computer Vision Lab at EPFL
Switzerland, 02/2022 - 06/2022

- Processed 3D neurons data and tested the effect of the segmentation task on neurons detection on Vaa3d using a U-net network.
- Implemented other state-of-the-art networks (ResUnet, Ce-Net…) using popular papers to assess their efficiency on our segmenting task.

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:**
  - Stereo odometry challenge with 360° cameras, using convolutional neural networks to determine the position of the rover (Pytorch, OpenCV).

- **Applied data analysis projects:**
  - Investigating the correlation between the news and Bitcoin's historical data using a 178 million quotes data set (Pandas, NLP)

- **Machine learning projects:**
  - Predicting 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).