



WAEEL
GAFAITI

MACHINE LEARNING ENGINEER



Chemin de Noréaz 16b,
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EDUCATION

MASTER'S DEGREE IN APPLIED MATHEMATICS

ECOLE POLYTECHNIQUE
FEDERALE DE
LAUSANNE, ECUBLENS,
ECUBLENS

2024

- Master's thesis complete at University College London

BACHELOR'S DEGREE IN MATHEMATICS

ECOLE POLYTECHNIQUE
FEDERALE DE
LAUSANNE, ECUBLENS,
ECUBLENS

2022

SCIENTIFIC BACCALAUREATE AND AWARD IN ECONOMICS AND LAW

GYMNASSE D'YVERDON,
CHESEAUX-NORÉAZ,
CHESEAUX-NORÉAZ

2019

WORK EXPERIENCE

ASSISTANTSHIP

EPFL
SEP 2022 - JAN 2023

- Student assistant in Mathematics for the architecture department.

TEACHING

ÉCOLE DU FLON
AUG 2024 - JAN 2025

- Mathematics classes to prepare students to their entrance exams.

LANGUAGES

English

German

French

LINKS

personal blog:
<https://waegaf.github.io/>

LinkedIn:
www.linkedin.com/in/wael-gafaiti-789b52272

HOBBIES

Basketball, Hiking, French
Philosophy, Literature

MY MOTTO

"Opportunity is the precise moment when you have to receive or do something."-Platon

This precise moment will take **with you**, I am convinced of it.

APPLIED PROJECTS

STUDY OF A DEEP-LEARNING BASED REGULARIZER WITHIN THE DENOISING TASK IN MEDICAL IMAGING FRAMEWORK

|UCL-GRADE: 5.75/6 | JUL 2024

Master's thesis realized in Python (PyTorch and TensorFlow) by combining two regularizers thanks to specific mathematical optimization tools. The model is trained on data (images) that have been preprocessed.

EVALUATION AND COMPARISON OF SEVERAL MATHEMATICAL APPROACHES TO DETERMINE CLUSTERS IN THE CASE OF MULTILAYER NETWORKS

|EPFL-GRADE: 5.5/6 | JUL 2023

Semester project carried out on R, studying different models of clusters detectors on data under the shape of multi-layer tensors. The aim is to detect these clusters with as little information as possible.

INTERNSHIP

INTERNSHIP | SEP 2023 - FEB 2024

WATCHOUT CORP SA

- Development of an algorithm based on statistics that retrieve the contour model of noisy mechanical pieces.

SKILLS

Data Science

Optimization

Python

PyTorch

TensorFlow

Matlab

SQL

A.I.

R

Enterprising

Joyful

COURSES

STATISTICS

EPFL

BIO STATISTICS

EPFL

DIFFERENTIAL EQUATIONS

EPFL

RANDOMIZATION AND CAUSATION

EPFL

APPLIED MATHEMATICS TO BIO IMAGERY

UCL

NUMBER THEORY IN CRYPTOGRAPHY

EPFL

ARTIFICIAL NEURAL NETWORKS AND REINFORCEMENT LEARNING

EPFL

EXTRA-CURRICULAR ACTIVITIES

EXPLORATEUR (OR "AUFKLÄRER") | JAN 2025 - MAY 2025

SWISS ARMY