



# Zied Mustapha

## Strong assets:

- Artificial Intelligence / Machine learning algorithms and implementations
- Big data analysis and data processing
- Software engineering
- Full stack developer



Current location:  
**Lausanne -  
Switzerland**

## CONTACT

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## SKILLS

- **Artificial Intelligence / Machine learning algorithms and implementations** (strong experience on NLP, LLM and optimization algorithms using TensorFlow and PyTorch)
- **Big data analysis and data processing** (Pandas /NumPy / SQL)
- **Programming skills** (Python, Java, Scala, Java-Script, C, C++)
- **Full stack web developer** (HTML/CSS, Java-Script, AJAX, react, PHP, SQL)

## WORK EXPERIENCE



### R&D AI Engineer Trainee at Nestlé Research | February 2024 - August 2024

Lausanne - 6 months Master Thesis where I developed an AI system capable of identifying and analyzing trends in dynamic datasets of scientific articles about Food Safety. The AI utilizes advanced natural language processing techniques to extract and interpret key trends, providing valuable insights into emerging research areas.

### R&D Data Scientist Trainee at Nestlé Research | August 2023 - January 2024

Lausanne - 6 months internship where I developed a web application designed for automated machine learning processing and data analysis on biological data.

### Teaching assistant at EPFLI 2021-2023

Lausanne - Teaching assistant for the course "Object oriented programming" and "Information, calculus and communication" under Pr. Jean-Cédric Chappelier

### Artificial Intelligence Workshop leader | 2022 - 2023

Lausanne - Artificial Intelligence Workshop leader in a Museum (Musée de la main) for high school classes

## EDUCATION



**(EPFL) Swiss Federal Institute of Technology  
Lausanne - Switzerland | 2021-2023**

**Master's degree in Data Science** (+ minor in Management, Technology and Entrepreneurship)

**(EPFL) Swiss Federal Institute of Technology  
Lausanne - Switzerland | 2017-2021**

**Bachelor's degree in Computer Science**

## PROJECTS

### Aspect based emotion analysis for dialogue understanding | 2023

Classifier capable of performing aspect level emotion analysis on chat-oriented dialogue data using large language models and prompting ([git link to report](#))

### Research on effects of topology on decentralised classification | 2022

Research on the effect of particular network topology on a decentralised classification task. ([git link](#))

### Flow detachment analysis | 2022

Machine learning algorithms for flow detachment detection and measurement of tufts on an airplane for aerodynamic analysis. ([git link](#))

### Database for Cep135 protein sequences | 2021

Algorithms aiming to search for specific proteins into multiple large databases. ([git link](#))

## LANGUAGES

**French** - Native

**English** - Fluent

## EXTRA INFORMATIONS

- **Age:** 24
- **Swiss resident** permit B
- **Nationality:** Tunisian
- **Chess master:** 1st position in Moroccan Chess Championship junior 2016
- **Robotic:** 1st place in French School Robotic Championship 2016
- **Music:** Violin (3 years) and piano (7 years)
- **European driver license:** B