AYOUB ELKHOUZARI

Master's graduate in Computer Science and Telecommunications, with significant experience in Artificial Intelligence (machine learning and deep learning), as well as full-stack development.

CONTACTS

- **2**2 years
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- **A**YOUB ELKHOUZARI
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LANGUAGES

- **Arabic :** **N**ative
- **French :** **I**ntermediate
- **English :** **I**ntermediate

SKILLS

- **Programming Languages**
  Front-end : HTML, CSS, JavaScript (JS)

  Back-end : PHP, SQL, Python, Java, JavaScript (Node.js)

- **Frameworks**
  Front-end : ReactJS, Next.js

  Back-end : Laravel, Flask

  Styling : Tailwind CSS

  TypeScript : JavaScript with secure typing

- **Bases de données (SGBD)**
  Concepts : MERISE, UML

  Bases de données SQL : MySQL

  Bases de données NoSQL : MongoDB, Firebase

- **Data Science**
  Machine Learning: Supervised/unsupervised learning, Scikit-learn

  Deep Learning: Neural networks, TensorFlow, PyTorch

EDUCATION

2023 - 2025
Graduate
Master's in CS and Telecommunications
Faculty of Sciences, Rabat

2022 - 2023
Graduate
Bachelor's Degree in Networks and Telecommunications
Faculty of Sciences, Rabat

2020 - 2022
Graduate
Diploma in Network Administration
School of Technology, Salé

2019 - 2020
Graduate
Baccalaureat, option **physics-chemistry**
High school ABD ELKRIM EL KHATTABI, Tiflet

EXPERIENCE

- **Professional Internship : 2 months**

  Ministry **of N**ational **E**ducation**, P**reschool **and S**ports
  Contributed to the implementation of a solution to automate the control of machines in classrooms using **Ansible**.

- **Research Internship : 6 months**

  University **M**ohammed **VI P**olytechnic (**UM6P**)
  Contributed to developing an eye disease classification method using a Transfer Learning architecture.

PROJETS

- **Robotics Project**
  Developed a parking management system based on an **Arduino UNO** microcontroller. The system is associated with a web interface developed with **Laravel**, allowing real-time visualization of the parking status.

- **Eye Disease Classification using AI**
  As part of a final-year internship, developed an Eye Disease classification system of fundus imaging using **Expressive Neural Networks** (ENN) and **Explainable AI** (xAI).

- **AI Project (Tumor Detection)**
  Developed a system for **detecting tumors** using **segmentation**, **detection**, and **prediction** with the **NIH Chest X-rays** dataset. The process involves **segmenting radiographic** images to identify suspicious areas and **detect anomalies**. This system is accompanied by a simulation via a web application developed with **Flask** as the user interface.

- **AI Project (Emotion Classification)**
  Created a system to **classify emotions** into several categories, accompanied by a graphical interface to test the trained **model**. The system identifies different emotions from provided data such as audio files and uses the interface to facilitate interaction and real-time evaluation of results.

- **Web Development Project**
  Developed a **student** and **teacher** management website for a faculty, built with the **Laravel** framework. The site allows centralized management of registrations, courses, and communication between students and teachers.

PUBLICATIONS

- **O**nset **P**rediction of **C**enter-**I**nvolved **D**iabetic **M**acular **E**dema on **U**ltra-**W**idefield **F**undus **I**mages