



AYOUB ELKHOUZARI

A second-year Master's student in Computer Science and Telecommunications, with significant experience in Artificial Intelligence (machine learning and deep learning), as well as front-end development (HTML, CSS, JavaScript, ReactJS) and back-end (PHP, Python, Node.js, Laravel, Flask).

CONTACTS

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- AYOUB ELKHOUZARI
- Ayoub-Elkhouzari

EDUCATION

- 2023 - 2025** **Master's in CS and Telecommunications**
In Progress Faculty of Sciences, Rabat
- 2022 - 2023** **Bachelor's Degree in Networks and Telecommunications**
Graduate Faculty of Sciences, Rabat
- 2020 - 2022** **Diploma in Network Administration**
Graduate School of Technology, Salé
- 2019 - 2020** **Baccalauréat, option Physique-Chimie**
Graduate High school ABD ELKRIM EL KHATTABI, Tiflet

LANGUAGES

- **Arabic** : Native
- **French** : Intermediate
- **English** : Intermediate

EXPERIENCE

- **Professional Internship : 2 months**
Ministry of National Education, Preschool and Sports
Contributed to the implementation of a solution to automate the control of machines in classrooms using **Ansible**.

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 avec typage sécurisé
- **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

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.
- **Networks Project**
As part of a final-year internship, implemented a **high-availability** network infrastructure with a focus on **automation, redundancy, and supervision**.
- **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.