

# Aymane Rihane

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## Professional Summary

Passionate developer, AI engineer, and data analyst with expertise in building machine learning models, developing full-stack software solutions, and analyzing complex data. Strong background in artificial intelligence, data science, and real-world software deployment. Always striving to bridge business needs with technical innovation. Currently seeking a PFE internship opportunity to apply and deepen my skills.

## Professional Experience

### Final Year Internship – Marketing Operations Management Platform

*SMART AUTOMATION TECHNOLOGIES, Tangier*

april 2024 – june 2024

Design and development of a platform for Marketing Operations Management of companies.

**MEAN Stack (MongoDB, Express, Angular, Node)**

### Final Year Internship – AI-Enhanced Healthcare Platform

*The Tangier Maintenance Company (STM)*

septembre 2025 – august 2025

Engineered a Global Healthcare Platform, incorporating AI enhancements .

**FastApi, React.js, transformers, BERT, LLMs, Redis, Celery, Nignx**

## Projects

### Facial Expression Detection Using Deep Learning

**Technologies:** Deep Learning (CNN), Transfer learning(VGG16/19 , EfficientNetB7/b3),  
Mediapipe, TensorFlow/Keras, OpenCV, Image Preprocessing, Streamlit.

### Real-Time Amazon Sentiment Analysis Pipeline

**Technologies:** Kafka, Spark MLlib, MongoDB, Docker, NLP Preprocessing (Lemmatization,  
TF-IDF Vectorization), Scrapping (BeautifulSoup, Selenium), Machine Learning, React, FastAPI.

### Parkinson's Disease Prediction Using Machine Learning

**Technologies:** Machine Learning (Logistic Regression, Random Forest, LightGBM), SMOTE, PCA,  
NumPy, Pandas.

### Charged System Search Adapted Using Genetic Algorithm For Solving the Travelling Salesman Problem

**Technologies:** Charged System Search (CSS),Genetic Algorithms, CBR

## Education

### Master's in Artificial Intelligence and Data Science

Faculty of Science and Technology, Tangier

2024–2026 (Ongoing)

### Bachelor's in Application Development Engineering

Faculty of Science and Technology, Tangier

2023–2024

### DEUST in MIPC (Math, Computer Science, Physics, Chemistry)

Faculty of Science and Technology, Tangier

2022–2023

### High School Diploma – Physics and Chemistry

Al Manar High School

2020–2021

## Technical Skills

**Programming Languages:** Python, Java, C++

**AI/ML Frameworks:** TensorFlow, Scikit-learn, Keras, OpenCV, Mediapipe

**Big Data Tools:** Hadoop, Spark, Kafka, Celery, Redis

**Web Technologies:** HTML, CSS, JavaScript, React, FastAPI, Spring

**Multi-Agent Systems:** JADE (Java Agent DEvelopment Framework)

**Databases:** SQL, T-SQL, SQLite, MySQL, MongoDB

**Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn

**Business Intelligence:** Talend, Power BI, Tableau

**Other Tools:** Git, Docker

## Languages

**Arabic:** Fluent    **French:** Intermediate    **English:** Intermediate