



# Haitam AOURARH

📅 23 years old

🏠 Casablanca, Morocco

✉️ haitam.aourarh@gmail.com

🌐 <https://haitam-aourarh.github.io/>

📞 +212 708170642

## Social networks

🌐 @haitam-aourarh

🐙 @haitam-aourarh

## Languages

### Arabic

Native language

### French

Bilingual

### English

Fluent

## Soft skills

### Curiosity

Efficient research

### Perspicacity

Attention to detail

### Adaptability

Business Acumen

### Emotional intelligence

Teamwork

### Analytical thinking

Problem-solving

### Critical thinking

Bias awareness

### Eloquence

Findings delivery and storytelling

## Certifications

### Google Data Analytics Professional Certificate

from Google

Verifiable with: [BDEE7LCUK9NA](#) or visit my [Credly](#) profile.

### HCIA Cloud Computing Certificate

from Huawei

Verifiable with:

[010100802808438891051548]

## Education

### Engineering degree: Information Systems and Big Data Engineering

From 2019 to 2023 National School of Applied Sciences Berrechid, Morocco

### Classes Préparatoires aux Grandes Écoles: Maths - Physics

From 2017 to 2019 Lycée Omar Ibn Al-Khattab Meknès, Morocco

### Baccalauréat international: Physics - Chemistry

From 2015 to 2017 Lycée La Préférence Meknès, Morocco

First-class honors

## Work experience

### Big Data Engineer [End-of-studies project internship]

From March 2023 to July 2023 Banque Centrale Populaire Casablanca, Morocco

Implementation of a data lake architecture which aims to migrate from a traditional data warehouse, in order to assess the performance of the banking network at the international level.

- Extracting and loading data with Apache NiFi into HDFS.
- Data preprocessing and transformation with Apache Spark.
- Loading tables on Apache Hive.
- Creation of interactive dashboards with Power BI.

**Techniques & Tools:** ELT, Apache NIFI, HDFS, Spark, Hive, Docker, MS Power BI.

### Data Analyst [Applied internship]

From June 2021 to August 2021 National Road Safety Agency Meknès, Morocco

- Implementation of Dijkstra's algorithm as a solution to a shortest path problem on a highway.
- Data cleaning and processing to optimize the placement of traffic control cameras on a highway.

**Techniques & Tools:** Pandas, NumPy, Matplotlib.

### Business Intelligence Analyst [Initiation internship]

From June 2020 to August 2020 ENSAB Berrechid, Morocco

Design of a data Warehouse and creation of a dashboard with Tableau to monitor the progress of Covid-19 variants.

**Techniques & Tools:** ETL, OLAP, MS SQL Server, SSIS, SQL, Tableau.

## Recent Projects

### Big Data Analytics | Building an end-to-end data pipeline

From November 2022 to January 2023 ENSAB Berrechid, Morocco

- Establishing a lambda architecture for football match data (API, CSV).
- Visualize everything on a web interface with a prediction of the team most likely to win.

**Techniques & Tools:** Kafka, HDFS, SparkML, LSTM, Django, HTML, CSS, JS.

### Deep Learning | Classification of olive tree diseases

From March 2022 to May 2022 ENSAB Berrechid, Morocco

- Preprocessing and Train-Valid-Test distribution of a local olive tree images dataset.
- Conception of the CNN model for disease classification.
- Realization of a graphical interface which takes as input the image of the olive tree and returns the appropriate diagnosis.

**Techniques & Tools:** CNN, Tensorflow, Keras, Numpy, Scikit-Learn.

## Competences

**Big Data:** Apache Hadoop, Spark, Nifi, Kafka

**RDBMS:** MySQL, Oracle, PL/SQL, MS SQL Server, PostgreSQL

**No-SQL:** MongoDB, CouchDB, Apache Hive, Apache Cassandra

**Programming:** Python, Scala, R, Java

**Virtualization:** VM, Docker

**Visualization:** Power BI, Tableau

**Machine Learning:** Linear Regression, K-Means, Random Forest, RNN, KNN, CNN