



# Aymane MAGHOUTI

## DATA & SOFTWARE ENGINEERING STUDENT

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### PORTFOLIO

@aymane-maghouti  
 @aymane-maghouti

### LANGUAGES

**Arabic**  
Native  
**French**  
intermediate  
**English**  
intermediate

### TECHNICAL SKILLS

#### Programming languages & Frameworks

Python - Flask - Java - JEE - Spring - Spring Boot - Spring DATA JPA - Javafx - HTML/CSS - Java script - SQL - PL/SQL - Shell (Basic concept)

#### Databases

MySQL - Oracle - PostgreSQL - SQL Server DB - Mongo DB - Cassandra DB - ClickHouse

#### ML & DL & Data Science

Scikit Learn - Tensorflow (Keras) - Regression - Classification - Clustering.

#### Big data tech & BI tools

Hadoop - Hive - HBase - Spark(PySpark) - Kafka - Power BI

#### Data Warehouse

ETL - ELT - Data modeling - Data integration - Data visualization

#### Operating systems

Linux (Ubuntu)  
Windows

### INTERESTED

Learn new technologies  
Sport (football , basketball ...)  
video games

I am currently enrolled in an academic course at the National School of Applied Sciences of Al Hoceima, where I enthusiastically dedicate myself to the fields of computer science and data engineering. My educational background enables me to delve deeply into the intriguing concepts, challenges, and opportunities associated with these dynamic fields. I am actively seeking an end-of-year internship in the fields of Data Science/Engineering and Software Engineering.

### EDUCATION

- **Data Engineering**  
Since September 2022 National School of Applied Sciences of Al Hoceima Al Hoceima
- **Preparatory cycle**  
From September 2020 to June 2022  
National School of Applied Sciences of Al Hoceima Al Hoceima
- **baccalaureate of Science in Physics and Chemistry**  
From September 2018 to June 2019 high school 2 octobre 1955 Aknoul

### LATEST PROJECTS

#### Real-Time Price prediction in Big Data Environment (Lambda architecture)

- **Apache Kafka**: for data ingestion.
- **Apache Hbase**: for storing real-time transactions.
- **PySpark**: for batch processing and transformation.
- **HDFS**: for store the raw data ingested from kafka brokers.
- **PostgreSQL DB**: for storing the transformed data.
- **Apache Airflow**: for orchestrating the batch Pipeline.
- **Spring Boot(Java)**: for building the real-time dashboard (Web-App).
- **Power BI**: for data visualization (Batch Analysis).

#### Patents analysis in big data environnement

- **beautifulsoup and APIs** : for collecting the data from various sources.
- **HDFS & MongoDB atlas** : for data storage (on premise and cloud).
- **Apache Spark** : for data analysis.
- **Power BI** : data visualization.
- **Flask & Bootstrap & JS** : web application for searching patents in a customized manner and selecting patents for analysis.

#### The development of a Java web application for Exams Planning

- **Java- JEE(Spring boot - Spring Data JPA - Spring Security)** : for the development of the backend of the app.
- **Thymeleaf & JS**: for the development of the frontend of the app.
- **MYSQL** : as a database management system (DBMS).

#### Sentiment analysis for Jumia reviews & Smartphones price prediction system

- **Python (Scikit Learn, pandas ...)** : for data preprocessing and training models.
- **Flask & HTML/CSS & JS** : for the development of web applications.
- **Mysql** : for data manipulation.

#### Real-time data pipeline with kafka

- **Python** : the *psutil* library for retrieving information on running processes (CPU, memory ...)
- **Apache Kafka** : for data Streaming.
- **SQL server Database** : The data storage solution.
- **Power BI**: for creating the dashboard.

#### Human Resources data pipeline with Azure services

- **Azure data Factory**: for building the data pipeline
- **Azure Blob Storage**: the data storage solution.
- **Azure Databricks (PySpark)** : for data transformation.
- **Power BI** : for data visualization.

#### Mobile Data Analysis

- **MySQL** : the data source.
- **Apache Sqoop**: transferring the data between MySQL and Hive.
- **Apache Hive** : the data Warehouse solution.
- **Power BI**: for creating the dashboard.