



Maria EL HOUDAIGUI

Future Big Data and Information Systems Engineer

Seeking a final-year internship (PFE)

Salé - Casablanca, Morocco

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PROFILE

Passionate about data engineering, business intelligence, and AI, with a collaborative mindset and strong leadership abilities. I aim to strengthen my skills and contribute to innovative projects.

EDUCATION

•National School of Applied Sciences (ENSA)

2021-2026

State Engineering Degree – Big Data and Information Systems

Berrechid, Morocco

•Ennahda High School

2020-2021

Baccalaureate in Physical Sciences – French Option – Highest Honors

Salé, Morocco

PROFESSIONAL EXPERIENCE

•Data Engineering (PFA Internship)- 2WLS

June - August 2025

Casablanca, Morocco

- Designed ETL processes using **Talend**, and created SQL queries with **PostgreSQL**.
- Automated data workflows using **Crontab**, and managed file transfers via **FileZilla**.
- Built interactive dashboards with **Tableau** for data analysis and visualization.
- Implemented data encryption to enhance security using **Java**.

•NLP and AI (Application Internship) - **COMPUCOM** 🔄

July - August 2024

Casablanca, Morocco

- Developed a full text-analysis application integrating comparison, summarization, and text-search features, powered by NLP algorithms using **NLTK**, **spaCy** and **Flask**.
- Built the web interface using **HTML**, **CSS** and **JavaScript**, and created visualizations with **Matplotlib**.

•Observation internship - **RMA**

July - August 2022

Rabat, Morocco

- Organized customer data and created visual reports using **Excel**.

PROJECTS

•Big Data Pipeline for Weather Data Monitoring 🔄

- Real-time data collection from the **Weather API**, transformation using **NiFi**, streaming via **Kafka**, storage in **MinIO**, processing with **Spark**, orchestration with **Airflow**, and monitoring using **Prometheus** and **Grafana**, all deployed using **Docker**.

•Data Warehouse and ETL for Sales 🔄

- Designed a Data Warehouse from multiple data sources using **SQL Server**, **SSIS** for data transformation, **Python** for web scraping, automation via **SQL Agent**, and **Power BI** for data visualization.

•ETL Cloud for Real-Time Logs

- Designed a cloud pipeline using **Python** for data processing, **Azure Blob Storage**, **Azure Data Factory** for orchestration, **Cosmos DB** for data management, and **Power BI** for results analysis.

•Quiz Master 🔄

- Developed an interactive web application for generating quizzes from recorded lessons, integrating database management with **MySQL**. The solution was built using **Python** and **Flask** for the back-end, **Groq API** for intelligent processing, and **SpeechRecognition** for voice recognition.

•Tourist Guide Chatbot 🔄

- Developed an intelligent tourist assistant for Morocco's capital, integrating **voice recognition** and **multilingual support**. The solution was built using **React** for the front-end, **Llama3** and **RAG** for intelligent response generation, and **Python** for back-end services.

SKILLS

Big Data and Distributed Processing: Hadoop, Cloudera, Spark, Kafka, Flume, Airflow, NiFi, Sqoop.

ETL and Data Analysis: Talend, SSIS, Power BI, Tableau, Qlik sense, Looker, SSAS, SSRS, Pandas, Matplotlib.

Databases: MySQL, Oracle, SQL Server, PostgreSQL, MongoDB, HBase, CosmosDB, Snowflake, BigQuery.

DevOps and Cloud: Docker, Oracle Cloud, GCP, Microsoft Azure.

Machine Learning: LLMs, Scikit-learn, Keras, TensorFlow, PyTorch, NLP, Hugging Face, RAG, LangChain, Faiss.

Modeling and Web: Merise, UML, HTML, CSS.

Operating Systems and Version Control: Linux, Windows Server, Git, GitHub.

Languages: French, English, Arabic.

Soft Skills: Leadership, Perseverance, Analytical mindset, Project Management, Communication.

CERTIFICATES

Oracle Cloud Infrastructure Foundations Associate - [Oracle](#)

Oracle Cloud Infrastructure AI Foundations - [Oracle](#)

Finalist Hackathon AI Project Quiz Master - [Hackathon](#)