



# 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)

State Engineering Degree – Big Data and Information Systems

2021-2026

Berrechid, Morocco

### Ennahda High School

Baccalaureate in Physical Sciences – French Option – Highest Honors

2020-2021

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

## PROJECTS

### Big Data Pipeline for Weather Data Monitoring

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- 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

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- 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

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- 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

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- 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

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- 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](#)