

# Moussa Lasfar | Data Engineering student

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## PROFILE SUMMARY

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Final-year Data Engineering student at the National School of Applied Sciences in Al Hoceima (ENSAH), specialized in Data Engineering, Big Data technologies, and Artificial Intelligence. Proven experience in delivering projects that integrate streaming technologies, distributed data systems, and artificial intelligence to solve real-world problems.

## PROJECTS

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### AI-powered real-time security system (Kafka, Apache Flink, Grafana) | 2024 – 2025

Built a real-time video surveillance system with anomaly detection and dashboard visualization.

### Distributed Telecom Billing system (Kafka, Spark, PostgreSQL, Metabase) | 2024 – 2025

Designed a streaming pipeline for telecom CDR/EDR events, improving billing accuracy.

### Wanted Criminal Detection System (Flask, CNN, MongoDB) | 2024 – 2025

Implemented a facial recognition app with real-time alerts and database integration.

### AI-Enhanced Irrigation Automation (Airflow, ML, Cloud, S3 storage) | 2023 – 2024

Developed an ML-driven irrigation system using weather/sensor data and automated workflows.

## KEY SKILLS

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### Databases

MySQL | OracleDB | PostgreSQL | MongoDB | CassandraDB | Microsoft SQL Server

### Programming

Python | SQL | PL SQL | Java | Spring (Spring Boot, Spring Security)

### Data Engineering & Big Data

Hadoop | HDFS | Hive | Sqoop | Pig | Spark | Kafka | Airflow

### Machine Learning & AI

Scikit-learn | PyTorch | TensorFlow | RNN | GRU | LSTM | NLP

### DevOps & Scripting

GitHub | Git | Linux | Bash | (CI/CD - in the process of learning)

### Cloud & Containerization

Docker | AWS | (Azure | Kubernetes - in the process of learning)

## Modeling

UML | Agile (Scrum)

## EXPERIENCE

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**AI Intern | NELOVOICE, Casablanca, Morocco | Jul 2025**

- Developed a Darija speech recognition model for improved local language AI applications.

**Data Science Intern | Intern Intelligence | Mar 2025**

- Built ARIMA and LSTM models for air pollution forecasting, improving early-warning insights.
- Developed NLP models for hate speech detection using logistic regression and deep learning.

**Data Scientist Assistant – AgriChallenge 2025 | UM6P, Benguerir, Morocco | Feb 2025**

- Participated in the AgriChallenge 2025 hackathon; team “*Irriga Twin*” secured 3rd place in the university category.
- Contributed to an innovative agri-tech solution combining automated irrigation, fertilization, and 3D farm digitization.

## EDUCATION

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**State Engineering Diploma – Data Engineering & Computational Sciences | ENSAH, Al Hoceima, Morocco | 2023 – Present**

- Specialized in Data Engineering, Artificial Intelligence, and Big Data.

**Preparatory Cycle | ENSAH, Al Hoceima, Morocco | 2021 – 2023**

- Mathematics, Physics & Engineering Sciences

## CERTIFICATIONS

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- **Oracle Certified Professional – Data Science (OCI, 2025)**
- **Oracle Certified Foundations Associate – AI Agent Studio (2025)**

## LANGUAGE SKILLS

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Arabic | English | French