

# Moussa Kalla

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## PROFILE

### Data Scientist · ML Engineer

Passionate about this field, I possess solid expertise in the design and deployment of solutions related to data and Machine Learning. My methodical approach, creativity, and ability to solve complex problems make me an effective and autonomous contributor, ready to take on technical challenges and bring significant value to your team.

## PROFESSIONAL EXPERIENCES

- Data Scientist - Digital Transformation** *Soft (TotalEnergies), Poitiers, France* 1 year · Nov 2024 - Oct 2025
  - Implementation of an **Azure Data Factory** for data ingestion from the Aerospace Defense and Performance division.
  - Design and maintenance of advanced **Power BI** dashboards, providing a clear and standardized view of key performance indicators for the entire division, facilitating data-driven decision-making.
  - Development and industrialization of Machine Learning models on **Azure Machine Learning Studio**.
- Data Scientist - Digitalization** *McCormick & Company, Avignon, France* 3 months · Sept 2024 - Nov 2024
  - Development of **Power BI** dashboards for better visualization of commercial and logistics data.
  - Automation of a data extraction pipeline from **SAP**.
- Engineering Internship - Data Scientist** *ArcelorMittal, Dunkerque, France* 6 months · Mar 2024 - Aug 2024
  - Development of a Machine Learning model for incident prediction, including clustering and classification of time series from real-time thermal data. **60% reduction in the number of incidents**.
  - Development of automated tools for data visualization, facilitating incident analysis.
- Internship - Statistical and Stochastic Modeling** *Sultan Moulay Slimane University, Morocco* 4 months · Mar 2022 - Jun 2022
  - Development of predictive models for market risk analysis, including the design and implementation of algorithms for forecasting financial asset prices.
  - Application of the Black-Scholes model for the valuation of options and other derivatives.

## EDUCATION

- Master's Degree - Data & AI** *IA School, Paris - France* 2024-2025
  - Data Management, MLOps, Cloud Computing, Business Intelligence, AI project management.
- Master's Degree - Mathematics & Computer Engineering** *École d'Ingénieurs du Littoral-Côte-d'Opale, France* 2023-2024
  - Machine Learning, Big Data, Data Analysis, Modeling and Simulation, Signal Processing.
- Master's Degree - Mathematics & Statistical Engineering** *Mohammed V University of Rabat, Morocco* 2022-2023
  - Advanced statistical modeling, optimization, and stochastic simulation techniques.
- Bachelor's Degree - Applied Mathematics** *Sultan Moulay Slimane University, Morocco* 2018-2022
  - Inferential statistics, advanced probabilities, and applications of mathematics in data science.

## SKILLS & TOOLS STACK

- Languages** : French (C2 - Fluent), English (B2 - Advanced)
- Programming Languages** : Python (Expert), (SQL, R) (Intermediate), (C++, Matlab) (Intermediate)
- Data Engineering** : (ETL, Azure Data Factory, Azure SQL Database, Azure Databricks) (Intermediate)
- LLMs** : Ollama (Expert) Azure AI Foundry (Intermediate), OpenAI
- Machine Learning** : (Azure Machine Learning Studio, Scikit-learn, TensorFlow, PyTorch) (Advanced)
- BI & Visualization** : Power BI (Advanced), Streamlit (Expert)
- Version Control & Repository** : (Git, GitLab, GitHub)(Advanced), CI/CD (Intermediate)
- Soft Skills** : Scientific rigor, Analytical thinking, Teamwork, Autonomy, Adaptability

## CERTIFICATIONS

- Azure Data Fundamentals** : Fundamentals of core data concepts related to Microsoft Azure data services.
- Azure AI Fundamentals** : Fundamental AI concepts related to software and service development on Microsoft Azure.

## INTERESTS

Sustainable development, Technological innovations, Scientific literature, Financial markets, Travel, Football.