

# MOUNA OUATTARA

## DATA SCIENTIST

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Portfolio LinkedIn GitHub

Versatile Data Scientist with expertise spanning data analysis, visualization, and the production deployment of ML/AI models. I design reliable, business-oriented solutions, demonstrating a collaborative, autonomous, and proactive approach to problem-solving.

### WORK EXPERIENCE

#### DATA SCIENTIST

Jun 2025 - Dec 2025

CI/FR/ES

- Telecommunications/ICT/Electronic Communications Regulatory Authority of CI
- Intelligent Automation & AI** | Power Automate, Python, Supervised ML - Deployed an architecture combining RPA and ML models, reducing manual workload on recurring processing tasks by 50%.
  - MLOps Architecture** | Python, SQL, Power BI - Implemented centralized monitoring for 10+ production models, including automated drift detection and alerting, improving anomaly response time by 40%.
  - ML Lifecycle Management** | CI/CD, MLflow - Standardized deployment workflows and automated testing, cutting time-to-production by 60%.

#### DATA SCIENTIST

Apr 2024 - Oct 2024

Paris, France

- Institut de la Vision, INSERM
- Deep Learning Optimization** | Python, PyTorch - Optimized and fine-tuned CNN and Transformer architectures for experimental datasets, improving accuracy by 30%.
  - Data Engineering** | Python, SQL, Pandas - Built a reproducible pipeline for 1,000+ datasets (>100 GB), including cleaning, normalization, merging, and quality control.
  - Advanced Feature Engineering** | Python, scikit-learn, scipy - Extracted and selected 30+ features from time-series signals, identifying 10 key biomarkers for clinical interpretation.

#### DATA SCIENTIST

Feb 2021 - May 2021

Paris, France

- LCQB
- Distributed Machine Learning** | Python, Dask, Slurm - Optimized training workflows on HPC clusters, reducing overfitting and decreasing computational time by 80%.
  - Engineering & Automation** | Bash, Python, Pandas - Developed robust pipelines including error handling to ensure reproducibility of analyses.

#### FULLSTACK DEVELOPER

May 2019 - Apr 2020

Paris, France

- IKIGAI
- Data Integration & Pipeline Development** | Node.js, MongoDB, SQL - Built automated pipelines to consolidate and standardize 3M+ records from multiple SQL and NoSQL sources, enabling centralized analytics and unified reporting.
  - Internal Analytics Platform** | Angular, TypeScript, MongoDB - Developed an automated reporting dashboard that reduced analysis lead time by 90% and enabled real-time performance monitoring and data-driven decision-making.

### PERSONAL PROJECTS

#### Satellite Environmental Analysis

May 2025 - Jul 2025

*AI-powered detection of environmental anomalies in satellite imagery.*

Achieved segmentation precision: 91% IoU and 94% Accuracy after normalization.

#### Multilingual Geopolitical Monitoring

Dec 2024 - Feb 2025

*Analyzed trends and risks from multilingual data using Deep Learning.*

Achieved classification reliability: 95% ROC-AUC and 88% F1 Score after fine-tuning.

#### Financial Fraud Detection

May 2024 - Jul 2024

*Automated identification of fraud patterns.*

Achieved detection performance: 92% AUC on imbalanced datasets.

### EDUCATION

#### SORBONNE UNIVERSITY

Sep 2021 - Dec 2024

*Master in Data Science, Specialization in Biology*

#### SORBONNE UNIVERSITY

Sep 2018 - Sep 2021

*Bachelor's Degree in Computer Science*

### TECHNICAL SKILLS

#### LANGUAGES & DEVELOPMENT

| Python, R, SQL, TypeScript, Java, Bash

#### DATA SCIENCE & ML

| Pandas, NumPy, Scikit-learn, XGBoost, TensorFlow, Keras, PyTorch

#### MLOPS & INFRASTRUCTURE

| Docker, MLflow, Airflow, AWS (S3), AWS (SageMaker), Databricks

#### DATABASES

| PostgreSQL, MySQL, MongoDB

#### VISUALIZATION & BI

| Power BI, Matplotlib, Seaborn, Plotly, Streamlit

### OTHERS

#### LANGUAGES

| French (Native), English (C1), Japanese (Beginner)

#### CERTIFICATIONS

| AWS Certified Machine Learning Specialty (in progress)