

Jérémie NDOJOYE

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Data Science Student | Apprentice Assistant Engineer @ INSERM

EDUCATION

University of Poitiers

Bachelor's degree in Data Science

Relevant Courses: Time Series Analysis, Linear Regression, Data Engineering, Machine Learning and Financial Econometrics.

Niort, France

2024 – 2027

Calasanz High School

French High School Diploma, Major in Sciences – 2:1

Relevant Courses: Mathematics, Physics-chemistry, Biology and Philosophy.

Libreville, Gabon

2021 – 2024

WORK EXPERIENCE

INSERM U1070 – Pharmacology of Antimicrobial Agents and Resistance

Apprenticeship - Assistant Engineer

Poitiers, France

September 2025 – July 2027

- Designed and deployed a full-stack data application in Python to automate the validation of bioanalytical data, reducing manual processing time by over 85% (from 20+ min to under 30 sec).
- Built an automated inventory management system for laboratory reagents, centralising stock tracking and eliminating manual spreadsheet updates across a team of 10+ researchers and reducing processing time from 2 days to under 2 minutes.
- Developed a centralised web portal aggregating all in-house laboratory tools into a single environment, improving tool accessibility and laying the foundation for a scalable internal data ecosystem.

ACADEMIC REWARDS

1st Place Winner – National Data Visualization Competition | INSEE (2025)

Student

Niort, France

May 2025

- Processed, cleaned, and performed advanced statistical analysis on large-scale raw data provided by the French National Statistical Institute.
- Engineered high-impact visual narratives and data assets to translate statistical trends into actionable solutions for the target problem.

EXTRA-CURRICULAR ACTIVITIES

Notre Gabon | Non-governmental organisation

Impact & Evaluation Team Member

Paris, France

January 2026 – Current

- Designed survey instruments to collect beneficiary feedback and transform qualitative responses into structured, exploitable datasets.
- Produced impact assessment reports measuring the effectiveness of youth development initiatives across the Gabonese diaspora.

PROJECTS

Markowitz Portfolio Optimisation – (Python, NumPy, pandas, SciPy, yfinance) | github.com/jeremiendjoye/markowitz_model

- Implemented mean-variance optimisation using SLSQP algorithm across a 6-asset universe (AAPL, TSLA, AMZN, WMT, GE, DBK) over a 6-year period (2020–2026) covering contrasted market conditions.
- Simulated 10,000 random portfolios to map the risk-return space and derived the efficient frontier, minimum variance portfolio, and maximum Sharpe ratio tangent portfolio.

Statistical Analysis & Interactive Dashboard for Calyxis – (Python, pandas, Streamlit, Power BI)

- Built a Python GUI application automating data cleaning and preprocessing pipelines on large-scale datasets provided by Calyxis (a risk prevention research centre), and implemented statistical hypothesis testing (t-test, chi², ANOVA...) to validate analytical assumptions and ensure data-driven conclusions.
- Designed and deployed a multi-page interactive Power BI dashboard presenting key performance indicators to support decision-making.

LANGUAGES, IT SKILLS & INTERESTS

LANGUAGES: French (Native) - English (Fluent)

IT SKILLS:

- Programming:** Python – Advanced (Pandas, NumPy, SciPy, Scikit-learn, Streamlit), R (Intermediate), VBA (Intermediate), SAS (Intermediate), SQL (Intermediate), HTML (Intermediate), CSS (Intermediate), JavaScript (Intermediate).
- Statistical & Quantitative Methods:** Time Series Analysis, Linear Regression, PCA, K-Means, Hierarchical Clustering, Logistic Regression, Monte Carlo Simulation, SLSQP Optimisation
- Data Visualisation:** Power BI (Advanced), Tableau (Intermediate)
- DevOps & Documentation :** Git, Docker, MkDocs

INTERESTS: Football (regional level) | Running | Classical Music | Financial Press (Financial Times, Les Échos, The Economist)