

# Taoufiq OUEDRAOGO

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in [Taoufiq Ouedraogo](#)

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## EXPERIENCE

### BNP Paribas, Data Scientist & Data Engineer Apprentice

Paris, France, Sep. 2023 - Aug 2025

- Built a GenAI platform with LLM and Agents for BNP Paribas non-EU banks, enabling document analysis and Q&A
- Developed an AI assistant to help with credit analysis, reducing processing time and improving data consistency
- Designed Dataiku workflows and Tableau dashboards to monitor ALMT operations and trader mandates
- Migrated about 20 Data Pipelines from Alteryx to Dataiku, cutting update request time by 50%

### Alcatel Submarine Networks, Data Scientist & BI Apprentice

Nozay, France, Oct. 2022 - Aug 2023

- Built Tableau Prep pipelines and dashboards to analyze and visualize project interdependencies
- Developed VBA-based simulations for cable manufacturing, reducing planning time by 40%
- Conducted requirements analysis, documentation, and team training

## Projects / Hackathons

- **A.I & Q Odyssey:** Created an interactive platform merging AI and Quantitative Finance, providing hands-on tools and short educational modules on Quants and AI techniques (Option Pricing, ML, Deep Learning, Reinforcement, Agents, ...)
- **Final Year Project:** Developed an AI-powered API using LLMs, speech synthesis to generate summaries, audio and chatbot interactions with Spacy, FalconsAI and MLX. Designed the business plan, applying startup methodologies
- **Rennes Data Challenge - 2025:** Developed portfolios replicating the STOXX Europe 400 index, integrating ESG factors. Used Markowitz portfolios and constrained optimization to construct the efficient frontier and allocate weights
- **Army Ministry AI Challenge - 2024:** Used ResNet18 vision model, explicability to analyze similar object differences
- **JP Morgan Data Challenge - 2023:** Used XGBoost, SARIMA, analytical methods to boost funding for an association
- **Rennes Data Challenge - 2023 Finalist:** Developed clustering model to optimize ENEDIS operational base locations enhancing operational efficiency and customer satisfaction

## SKILLS

**Quant Finance:** Time Series, Derivative Pricing (Trees, Black-Scholes, Monte Carlo, Heston, Merton), Stochastic Modeling (Markov, Brownian Motion, Itô)

**Deep Learning:** Neural Networks, Agents/LLMs (SmolAgents, LangChain, RAG), Transformers, NLP, Computer Vision

**Machine Learning:** Reinforcement Learning, Ensembles, Decision Trees, Clustering, Bayesian Stats, Dimension Reduction

**Data Science & Analytics:** Hugging Face, LangChain, Dataiku, Alteryx, Databricks, MLFlow, Tableau, Power BI, Graphs

**Big Data & Cloud:** Microsoft Azure, Azure ML, Apache Hadoop, Spark, Kafka, Hive, Snowflake

**Programming:** Python, Java, C, C++, R, SAS, Lisp, VBA, LaTeX, Docker, DevOps CI/CD

**Databases:** SQL, NoSQL, Neo4J, PostgreSQL, MongoDB, UML

**Project Management:** Scrum, Jira, Monday, Git Versioning (GitLab, GitHub), Team Management

**Languages:** French (Native), English (TOEIC Level B2)

**Certifications:**

- **Investment Management with Python & ML** (EDHEC)
- **Dataiku Designer, Developer, ML, MLOps Certification**
- **Machine Learning, Deep Learning, Tensorflow Specialization** (Stanford, DeepLearning.AI)

## EDUCATION

**WorldQuant University**, MSc in Financial Engineering

Online, July 2024 - Ongoing

**ECE Engineering School**, Big Data & AI Engineering Degree

Paris, France, Sep. 2022 - July 2025

**Compiègne University of Technology**, IT Engineering Degree

Compiègne, France, Sep. 2021 - July 2022

**Gustave Eiffel High School**, Preparatory Class

Dijon, France, Sep. 2019 - July 2021