Taoufiq OUEDRAOGO

Looking for an Apprentice Data Scientist, AI or Quants role

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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 (NOKIA), 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:** Developing 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, Fourier, Bates, BCC), Stochastic Modeling (Markov, Brownian Motion, Itô), Interest Rates Modeling (Vasicek, CIR)

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:
- **Machine Learning, Deep Learning, Tensorflow Specialization** (Stanford University, DeepLearning.AI)
- **Dataiku Designer, Developer, ML, MLOps Certification** (Dataiku)
- **Spark, Hadoop and Snowflake for Data Engineering** (Duke University, Coursera)
- **Machine Learning avec Microsoft Azure** (DataScientist.fr)
- **Investment Management with Python & ML** (EDHEC Business School)

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   Compiègne, France, 2021 - 2022

Gustave Eiffel High School, Preparatory Class   Dijon, France, 2019 - 2021

Prytanée Militaire de Kadiogo, Scientific High School Diploma   Burkina Faso, Sep. 2012 - July 2019