Taoufiq OUEDRAOGO

Looking for an Apprentice Data Scientist, AI or Quants position

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EXPERIENCE

BNP Paribas, Data Scientist & Data Engineer Apprentice   *Paris, France, Sep. 2023 - Aug 2025*

- Co-developed a GenAI platform leveraging LLMs and RAG to industrialize AI use cases for BNP Paribas non-EU banks
- Co-built 4 core GenAI features (Q&A, document comparison, information extraction, summarization)
- Co-developed an AI assistant for credit analysts, significantly enhancing review time and decision-making
- Developed the administrator interface (frontend, backend, database) to manage users and GenAI use cases
- Designed Dataiku workflows and Tableau dashboards to monitor ALM operations, trader mandates, Sustainable IT
- Migrated about 20 Data Pipelines from Alteryx to Dataiku, improving processing delays and maintainability by 50%

Alcatel Submarine Networks (Nokia), Data Scientist & BI Apprentice   *Nozay, France, Oct. 2022 - Aug 2023*

- Built Tableau Prep pipelines and Tableau 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

- **AT.x.Lab:** Creating a R&D collective focused on AI and advanced technologies. Innovative problem-solving approaches
- **Final Year Project:** Designed a LLM-powered API for summarization and chatbot with Spacy, FalconsAI and MLX
- **Portfolio Optimization:** Applied constrained minimization techniques to construct efficient Markowitz frontiers
- **Army Ministry AI Challenge - 2024:** Used ResNet18 vision model, explicability to analyze similar object differences
- **JP Morgan Data Challenge - 2023:** Used XGBoost and analytical methods to boost funding for an association
- **Rennes Data Challenge - 2023 Finalist:** Developed of a KMeans clustering model to optimize Enedis operational bases in Brittany, minimizing outage response times and improving service efficiency

SKILLS

Quant Finance: Time Series, Derivative Pricing (Trees, Black−Scholes, Monte Carlo, Heston, Merton, Fourier, Bates, BCC), Stochastic Modeling (Brownian Motion, Itô), Interest Rates Modeling (Vasicek, CIR)

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

Machine Learning: Reinforcement Learning, Ensembles (Bagging, Boosting, Stacking, Forests), Decision Trees, Clustering (KMeans, AHC, Gaussian Mixture), Bayesian Stats, Dimension Reduction (PCA), Regularization (Lasso, Ridge, ElasticNet)

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

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 with Microsoft Azure** (DataScientist.fr)

EDUCATION

Pantheon-Sorbonne University, Mathematical Engineering of Finance   *Paris, France, Sep. 2025 - July 2026*

WorldQuant University, MSc in Financial Engineering   *Online, July 2024 - Ongoing*

Central School of Electronics, Engineering in Big Data & AI   *Paris, France, Sep. 2022 - July 2025*

Compiègne University of Technology, IT Engineering   *Compiègne, France, 2021 - 2022*

Gustave Eiffel High School, Preparatory Classes   *Dijon, France, 2019 - 2021*

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