Seyni Junior Baldé

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Data, Machine Learning & AI Apprenticeship (Master's Years 1 & 2) – IT Projects
Available Immediately | 2 Years / 24 Months | Schedule: 3 Days at Work / 2 Days at School

Engineering student specializing in Big Data & Machine Learning at EFREI Paris. Experience in Data/ML, AI and RAG solutions, and LLM integration, with an awareness of business needs, data governance, project management, and cybersecurity risks.

Education

EFREI Paris Panthéon-Assas Université – Paris 2026 – 2028
Engineering Degree Program – Big Data & Machine Learning | Work-Study Apprenticeship
CESI School of Engineering – Paris 2023 – 2026
Engineering Degree Program – Data & AI; Integrated Preparatory Program, 2023–2025; Top ranked (3rd year), 2025–2026
Institution Sainte Jeanne d'Arc – Dakar 2022 – 2023
French General Baccalaureate – Mathematics and Computer Science – Highest Honors

Professional Experience

RiskHunter – Data & AI Engineer Apprentice August – October 2026

- Developed a Data/ML pipeline with a **Streamlit** interface and a **FastAPI** API for data ingestion, LLM inference, MITRE ATT&CK / D3FEND scenario generation, and analytical metrics.
- Contributed to **product planning** and architectural decisions; gained foundational knowledge of **AWS / Amazon Bedrock** and awareness of data governance, **GRC**, and **cybersecurity risks**.

YMUNIT – AI / Data Engineering Intern January – April 2026

- Designed an end-to-end mapping pipeline to process, score, and analyze over **40 security frameworks**; reduced data processing and preparation time for RAG use by **80%**.
- Implemented LLM-based scoring and summarization using the **Mistral API & Ollama** (local deployment).

Freelance Developer – Self-Employed 2025 – Present

- Designed and developed web and mobile applications for clients using Figma, Flutter, WordPress, and Shopify.
- Provided post-delivery support, follow-up, and technical maintenance for **5+ clients**.

Atos – Software Engineering Intern April – July 2025

- Developed Flutter/Dart applications and maintained a Spring Boot backend within a microservices architecture; delivered 3 API modules and 2 key features using Agile/Scrum and Gitflow/GitHub.

Les Sherpas – Private Tutor November 2025 – Present

- Provided mathematics and computer science tutoring: **20+ teaching hours**.
- Created teaching materials and provided personalized student support.

Data & Machine Learning Projects

OCR Digit Prediction – *Python, NumPy, Scikit-learn* August 2026
Implemented a two-layer neural network from scratch without a deep learning framework: achieved **84.4%** accuracy on the sklearn digits dataset; built a real-time web interface.
CHU Data Pipeline – *Python, SQL, Airflow, PostgreSQL, Docker, Metabase* June 2026
Built ETL pipelines with PostgreSQL/CSV ingestion, Airflow orchestration, SQL transformations, data quality checks, and Metabase reporting.
HumanForYou – Employee Turnover Prediction October – November 2025
Built predictive models using **25 HR variables**, achieving **over 80%** accuracy; performed feature engineering and an ethical audit covering the **GDPR / AI Act** and fairness metrics.

Skills

Programming & Development: Python, C#/.NET, C++, SQL, TypeScript, Java / Spring Boot, Dart / Flutter, Git.
Data Engineering: Apache Airflow, Spark, Pandas, NumPy, PostgreSQL, ETL, Docker.
Machine Learning: Scikit-learn, classification, scoring, feature engineering, Plotly, deep learning.
GenAI & MLOps: LLMs, vLLM, RAG, Hugging Face, LangChain, ChromaDB, prompt engineering.
APIs & Visualization: PowerBI, FastAPI, Streamlit, Metabase, Jupyter Notebook, Matplotlib, Seaborn.
Cloud (Foundational Knowledge): AWS, Amazon Bedrock, EC2.
Languages: French C2 (Native); English C2 (Bilingual); Spanish B1 (DELE).

Certifications

Completed: EBIOS Risk Manager | Harvard CS50P | Cisco Cybersecurity | PIX | TOP Scorer (40%) – AXA Challenge 2025
In Progress: Microsoft AI-901, AI-300, AI-103 | Harvard CS50 AI.

Personal Qualities & Interests

Soft Skills: Leadership, attention to detail, teamwork, independence, determination, intellectual curiosity.
Interests: Formula 1, Muay Thai (2 years), photography & video editing (freelance), video games, reading.