Tailored Resume

Esaïe Alain-Emmanuel KOUPOH

Visionary Project & AI Leader

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PROFESSIONALSUMMARY

Highly accomplished and results-driven Project Manager with **6+ years of experience** in leading complex digital transformation, AI innovation, and large-scale educational initiatives across Africa. Recognized as a visionary "chef d'orchestre" adept at coordinating multidisciplinary teams and delivering revolutionary AI solutions. Proven mastery of data, cloud, and AI technologies combined with inspiring leadership and a deep passion for leveraging technology to preserve and advance African cultural identity. Committed to building a lasting legacy where technology meets cultural heritage, ensuring impactful project implementation and strategic stakeholder collaboration.

PROFESSIONALEXPERIENCE

Project Manager Consultant - Data & AI

Orange Côte d'Ivoire | Abidjan, Côte d'Ivoire

November 2023 – Present

Spearheaded the Agile implementation and strategic deployment of mission-critical decision-support systems and data-driven solutions, ensuring **97% on-time delivery** of high-impact tools.

Led multidisciplinary teams in the development and integration of advanced digital platforms, including:

REMO: Real-time distribution performance monitoring platform optimizing operational efficiency.

Infoview: AI-powered claims data validation system enhancing accuracy and fraud detection.

Homologation: Machine Learning system for streamlined customer enrollment data verification.

Tracking Kit: Optimized SIM card inventory and distribution tracking, reducing logistical costs.

Architected a robust **Data Mesh**, establishing a domain-oriented data ownership model that fostered self-service analytics and cross-functional agility across departments.

Optimized key business processes and mentored cross-functional teams, driving a culture of data-driven decision-making and continuous improvement.

Managed project scope, timelines, and resources for initiatives with significant strategic and operational implications, contributing to enhanced organizational value.

Lead Data Scientist & Data Product Manager

Data354 | Abidjan, Côte d'Ivoire

September 2023 – Present

Orchestrated the end-to-end implementation of advanced Machine Learning (ML) and Large Language Model (LLM) driven decision-support systems and products, ensuring alignment with strategic objectives.

Directed Agile development processes for innovative AI products, delivering tangible impact:

Contract conformity analysis: Leveraged AI (LLMs) to automatically verify contract compliance against legal standards, enhancing legal operational efficiency.

TaxiFlow: Deployed ML models to predict hourly demand, optimizing driver scheduling and achieving efficient coverage for a ride-sharing platform.

Avia: Developed a voice-enabled AI assistant for proactive cardiovascular care, monitoring blood pressure, treatment adherence, and symptoms through regular phone interactions.

Alia: Implemented a Retrieval-Augmented Generation (RAG) system to comprehend complex legal queries, identify relevant sources, and deliver actionable responses from a professional legal corpus.

Coordinated cross-functional technical teams, fostering collaboration and ensuring high-quality, scalable product delivery.

Utilized a comprehensive tech stack including Python3, SQL, OpenAI, Azure, GCP, LangChain, DB & Vector Stores, Streamlit, Docker for robust solution architecture.

Head of Data Science Academy

German Institute of Business and Technology (GIBT) | Remote, Africa

August 2023 – May 2024

Led continent-wide data science training programs, significantly scaling impact to empower **700+ trainees** with cutting-edge AI and data skills.

Provided inspiring team leadership and professional development for instructors, fostering a high-performance educational environment.

Managed key stakeholder relationships, including comprehensive financial reporting and KPI tracking for program success and transparent resource allocation.

Drove cross-department collaboration to optimize marketing and delivery strategies, enhancing program reach and engagement.

Data Science Program Lead - Senegal

German Institute of Business and Technology (GIBT) | Dakar, Senegal

August 2022 – July 2023

Directed tech training programs for over **500 students and professionals** in Software Engineering & Machine Learning.

Designed comprehensive curricula and delivered high-impact lectures as Senior Trainer, establishing robust learning pathways.

Optimized cross-functional operations to ensure efficient program delivery and student success, utilizing Agile and Kanban methodologies.

AI Software Engineer

Baamtu Datamation | Dakar, Senegal

December 2020 – July 2022

Developed and deployed innovative AI/ML solutions addressing critical real-world challenges, with a focus on African linguistic and cultural contexts.

Pioneered the **Wolof NLP Dataset Pipeline**, collecting and processing language data to advance Natural Language Processing for African languages, demonstrating a commitment to cultural preservation through technology.

Engineered solutions including:

Ganeyi MRZ OCR: Automated ID/passport data extraction, improving efficiency and accuracy.

Wakanda Form OCR API: Structured signup form data for seamless digital onboarding.

Email Automation Tool: Streamlined insurance ticket handling, reducing processing times.

Machine Learning & Computer Science Instructor

Dakar Institute of Technology - DIT | Dakar, Senegal

January 2020 – Present

Instructed and mentored **100+ learners** in a broad range of advanced computing topics, including AI, Machine Learning, Deep Learning, Big Data, Cloud Computing, and Software Engineering.

Developed and delivered engaging curriculum modules on Object-Oriented Programming (Python, Java, JavaScript, C++), Data Analysis & Visualization, and MLOps.

EDUCATION

Master of Artificial Intelligence (Night course) | Dakar Institute of Technology, Senegal | *January 2022 – Present*

Bachelor in Computer Science | Ecole Supérieure Africaine des TIC - ESATIC, Abidjan, Côte d'Ivoire | *2016 – 2019*

High School Degree | Collège Reference de Sinfra, Côte d'Ivoire | *2016*

CORE COMPETENCIES

Project Leadership & Management : Strategic Planning, Agile Methodologies (Scrum, Kanban), Multidisciplinary Team Coordination, Stakeholder Management, Risk Assessment, Resource Allocation, Budget & Financial Stewardship (KPIs, Reporting), On-Time Delivery, Digital Transformation.

AI & Data Science Expertise : Machine Learning, Deep Learning, Natural Language Processing (NLP), Large Language Models (LLMs), AI Product Development, Data Modeling, Predictive Analytics, Cloud Platforms (Azure, GCP, AWS), Data Mesh Architecture, MLOps.

Technical Proficiency : Python (Scikit-learn, PyTorch, TensorFlow, LangChain), SQL, Docker, FastAPI, Streamlit, Jira, Power BI, PostgreSQL, MongoDB, Git.

Cultural & Digital Innovation: African Language Processing, Data for Development, Community Engagement, Tech Training & Mentorship, Advocating for Technology-driven Cultural Preservation.

LANGUAGES

French: Native

English: Fluent

CERTIFICATIONS & AFFILIATIONS

NVIDIA Deep Learning Institute : Deep Learning Instructor (2022 – Present) - Delivering workshops to academia.

Zindi: Volunteer Country Ambassador for Senegal (2021 – Present) - Driving data science growth, connecting talent, fostering partnerships, and organizing community events.

Applied AI with DeepLearning (IBM)

Full Stack Data Science Training (VIVADATA Paris)

TECHNICAL PROJECTS

Predicting Customer Churn: Developed a Machine Learning model to predict customer churn for Expresso Senegal, optimizing retention strategies (2020).

Estimated Time for Arrival (ETA) Hackathon : Built an ML model to accurately estimate ETA for motorbike deliveries in Nairobi (2019).

Detection of Swollen Shoot by Drone: Engineered a drone-embedded ML model to detect Swollen Shoot symptoms with high accuracy in orchards (2019).