

Tailored Resume

Esaïe Alain- Emmanuel KOUPOH

Visionary Project Manager & AI Leader

Abidjan, Côte d'Ivoire (Relocation) | emmanuelkoupoh@gmail.com | +221785282560 / +2250720696235 | LinkedIn | GitHub

PROFILE

Visionary Project Manager and AI/Data Leader with over 6 years of experience orchestrating large-scale digital transformation initiatives, including pioneering AI/ML solutions and cultural technology projects. Proven ability to lead multidisciplinary teams, manage complex projects with significant resource implications, and drive innovation that seamlessly blends cutting-edge technology with cultural identity. Deep expertise in data, cloud, and AI, coupled with a profound passion for preserving and advancing African heritage through digital means.

PROFESSIONAL EXPERIENCE

Project Manager Consultant - Data & AI | Orange Côte d'Ivoire

November 2024 – Present

Strategically led and implemented cutting-edge AI and data-driven solutions for decision-support systems, ensuring 97% on-time delivery for mission-critical digital platforms.

Orchestrated multidisciplinary teams using Agile methodologies, overseeing the full project lifecycle from conceptualization to deployment.

Designed and deployed key digital platforms, including REMO (real-time distribution performance monitoring), Infoview (AI-powered claims data validation), Homologation (ML system for customer enrollment verification), and Tracking Kit (SIM inventory optimization & distribution tracking).

Architected a domain-oriented Data Mesh, enhancing self-service analytics and fostering cross-functional agility across departments.

Optimized processes and mentored cross-functional teams, driving efficiency and collaborative innovation.

Tech Stack: Jira, MS Office, Python3, SQL, Power BI, PostgreSQL.

Lead Data Scientist & Data Product Manager | Data354

September 2024 – Present

Pioneered the development and deployment of advanced AI/ML and LLM-based products, translating complex data into impactful decision-support systems for real-world applications.

Led Agile implementation and delivery of innovative solutions, including:

Contract AI: Leveraged Large Language Models (LLMs) for automated contract conformity analysis, significantly enhancing compliance and legal standards verification.

TaxiFlow: Developed Machine Learning models to predict hourly taxi demand, optimizing driver scheduling and achieving efficient coverage.

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

Alia: Implemented RAG (Retrieval-Augmented Generation) to understand complex legal queries, identify relevant sources, and provide actionable responses from professional legal corpora.

Tech Stack: Python3, SQL, OpenAI, Azure, GCP, LangChain, DB & Vector Stores, Streamlit, Docker.

Head of Data Science Academy | German Institute of Business and Technology (GIBT)

August 2023 – May 2024

Led continent-wide technology education initiatives for Azubi Africa, scaling impact to train over 700+ professionals and 500+ students in cutting-edge AI, Machine Learning, and Software Engineering.

Directed curriculum development, program delivery, and strategic partnerships, serving as Senior Trainer for advanced modules.

Managed stakeholder relationships, including financial reporting and KPI tracking, demonstrating strong oversight of program resources and outcomes.

Fostered cross-department collaboration to optimize marketing, delivery, and overall program success.

Tools: Kanban, Agile methodologies.

AI Software Engineer | Baamtu Datamation

December 2020 – July 2022 | Dakar, Senegal

Engineered and deployed impactful AI/ML solutions, addressing real-world challenges with a critical focus on African contexts.

Pioneered the Wolof NLP Dataset Pipeline, collecting and processing essential language data, directly contributing to the digital preservation of African linguistic heritage.

Developed AI-powered systems for automated data extraction (Ganeyi MRZ OCR for ID/passport, Wakanda Form OCR API for structured signup forms) and streamlined insurance ticket handling with an Email Automation Tool.

Tech Stack: Python, PyTorch, Keras, FastAPI, Docker, Azure, Git.

Machine Learning & Computer Science Instructor | Dakar Institute of Technology - DIT

January 2020 – Present | Dakar, Senegal

Educated and mentored over 100+ learners annually in core Computer Science, Software Engineering, Data Science, and Machine Learning concepts .

Designed and delivered comprehensive coursework covering advanced topics from Deep Learning (TensorFlow, PyTorch) to Big Data & Cloud Computing (AWS, GCP).

EDUCATION

Master of Artificial Intelligence | Dakar Institute of Technology

January 2022 – Present

Bachelor in Computer Science | Ecole Supérieure Africaine des TIC (ESATIO)

2016 – 2019 | Abidjan, Côte d'Ivoire

Majors: IT Systems & Software Engineering.

SKILLS

Project Management & Strategic Leadership

Visionary Project Leadership, Agile Methodologies (Scrum, Kanban), Multidisciplinary Team Coordination , Strategic Implementation , Budget Oversight , Stakeholder Management , Risk Management , On-time Delivery (97%), Process Optimization .

AI, Data & Digital Innovation

Machine Learning (Scikit-learn, XGBoost, LightGBM, CatBoost), Deep Learning (TensorFlow, Keras, PyTorch, YOLO, Hugging Face Transformers), Large Language Models (LLMs, RAG), Natural Language Processing (NLP), Data Engineering (SQL, PostgreSQL, MongoDB, Data Mesh), Cloud Platforms (Azure, GCP, AWS SageMaker, S3, EC2), API Development (FastAPI), Docker, CI/CD, Python (Advanced).

Cultural Heritage & Education Tech

African Language Data Processing (Wolof NLP), Digital Preservation , Curriculum Development , Large-Scale Tech Education & Training (1000+ professionals), Mentorship , Stakeholder Engagement in Educational Initiatives .

LANGUAGES

English: Fluent

French: Native

CERTIFICATES

Applied AI with DeepLearning (IBM)

Full Stack Data Science Training (VIVADATAParis)

Duolingo English Test (English proficiency)

ORGANIZATIONS

NVIDIA Deep Learning Institute | Deep Learning Instructor

2022 – Present

Delivering Deep Learning Fundamentals workshops for academia.

Zindi | Volunteer Country Ambassador for Senegal

2021 – Present | Dakar, Senegal

Driving data science growth by connecting talent with skill-building competitions , fostering industry partnerships , and organizing community events.