

Esaïe Alain-Emmanuel KOUPOH

Visionary Project Manager | AI & Digital Transformation Leader

Abidjan, Côte d'Ivoire (Relocation)

emmanuelkoupoh@gmail.com | +221785282560 / +2250720696235

LinkedIn: Esaïe K. GitHub: eaedk Twitter: eaedk

PROFILE

Visionary Project Manager and AI & Digital Transformation Leader with **6+ years of experience** spearheading large-scale, multidisciplinary projects across digital, AI, and education sectors. Proven ability to **drive technological innovation**, deploy cutting-edge AI/ML solutions, and coordinate diverse teams to deliver impactful results. Expert in Agile methodologies, strategic budget oversight, and fostering robust collaborations with key stakeholders, including UNESCO and government bodies. Passionate about leveraging technology to preserve and advance African cultural heritage, building legacies through innovation in the digital age.

PROFESSIONAL EXPERIENCE

Project Manager Consultant - Data & AI

Orange Côte d'Ivoire | Abidjan, Côte d'Ivoire | 11/2024 – Present

**Led Agile implementation** of decision-support systems and data-driven solutions, driving end-to-end project execution for mission-critical digital platforms and AI models.

**Orchestrated multidisciplinary teams** to achieve **97% on-time delivery** for key deliverables including:

- REMO:** Real-time distribution performance monitoring platform.
- Review:** AI-powered claims data validation system.
- Homologation:** ML system for customer enrollment data verification.
- Tracking Kit:** SIM card inventory optimization & distribution tracking.

**Architected a domain-oriented Data Mesh**, enabling self-service analytics and enhancing cross-functional agility and collaboration.

Optimized operational processes and mentored cross-functional teams, fostering a culture of efficiency and continuous improvement.

Lead Data Scientist & Data Product Manager

Data354 | Côte d'Ivoire | 09/2024 – Present

**Developed and deployed revolutionary AI/ML products** leveraging LLMs and RAG for real-world impact and intelligent decision-support systems.

Guided the **Agile implementation** and coordinated teams for key deliverables:

- Contract conformity analysis:** Leveraged AI (LLMs) to verify contract compliance and ensure alignment with legal standards.
- TaxiFlow:** Deployed ML to predict hourly demand, optimizing driver scheduling for

efficient coverage.

**%Avia:** Engineered a voice-enabled AI assistant for proactive cardiovascular care, monitoring blood pressure and treatment adherence.

**%Alia** Utilized RAG to understand legal queries, identify relevant sources, and provide actionable responses based on a structured legal corpus.

Proficiently utilized a robust tech stack including Python3, SQL, OpenAI, Azure, GCP, LangChain, DB & Vector Stores, Streamlit, Docker.

### Head of Data Science Academy

*German Institute of Business and Technology (GIBT) | 08/2023 – 05/2024*

Provided **strategic leadership** for continent-wide training programs, scaling impact to **700+ trainees** as Senior Trainer

Managed stakeholder relations, including **financial reporting and KPI tracking**, ensuring transparency and impact.

Coordinated cross-departmental collaboration to optimize marketing strategies and program delivery.

### Data Science Program Lead - Senegal

*German Institute of Business and Technology (GIBT) | 08/2022 – 07/2023*

Directed Azubi Africa's tech training programs for **500+ students & professionals** in Software Engineering & Machine Learning.

Designed comprehensive curriculum, delivered lectures as Senior Trainer, and optimized cross-functional operations.

### AI Software Engineer (Full-time)

*Baamtu Datamation | Dakar, Senegal | 12/2020 – 07/2022*

**Built and deployed innovative AI/ML solutions** addressing real-world challenges, emphasizing cultural context:

**%Wolof NLP Dataset Pipeline:** Collected & processed indigenous language data, contributing to African linguistic preservation.

**%Ganeyi MRZ OCR:** Automated ID/passport data extraction.

**%Wakanda Form OCR API:** Structured signup form data.

**%Email Automation Tool:** Streamlined insurance ticket handling.

Utilized a tech stack including Python, PyTorch, Keras, FastAPI, Docker, Azure, Git.

### Machine Learning & CS Instructor (Part-time)

*Dakar Institute of Technology - DIT | Dakar, Senegal | 01/2020 – Present*

Mentored **100+ learners** in Computer Science, Software Engineering, Data Science, and Machine Learning.

Developed and delivered curriculum covering: Object-Oriented Programming (Python, Java, JavaScript, C++), Data Analysis & Visualization, Machine Learning (Scikit-learn, XGBoost, LightGBM, CatBoost), Deep Learning (TensorFlow, Keras, PyTorch, YOLO, Hugging Face Transformers), Big Data & Cloud Computing (SQL, AWS, GCP), Software Engineering & DevOps (Git, Docker, CI/CD, PostgreSQL, MongoDB, FastAPI).

## EDUCATION

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### Master of Artificial Intelligence

*Dakar Institute of Technology | 01/2022 – Present*

### Bachelor in Computer Science

## Bachelor in Computer Science

Ecole Supérieure Africaine des TIC - ESATIC| Abidjan, Côte d'Ivoire | 2016 – 2019

Majors: IT Systems & Software Engineering.

## High School Degree

Collège Reference de Sinfra | Sinfra, Côte d'Ivoire | 2016

Majors: Mathematics, Physics, Chemistry, Biology.

## SKILLS

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**Project Management & Strategic Leadership:** End-to-end project execution, Agile & Kanban methodologies, Risk Management, Resource Allocation, Multidisciplinary Team Coordination, Strategic Stakeholder Engagement, Budget Oversight, Process Optimization, 97% On-Time Delivery.

**AI & Digital Innovation:** AI/ML Model Development & Deployment (LLMs, RAG, NLP, Computer Vision), Data-Driven Product Management, Digital Platform Deployment, Cloud Computing (Azure, GCP, AWS), Data Architecture (Data Mesh), MLOps, CI/CD.

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

**Leadership & Mentorship:** Inspiring Leadership, Cross-Functional Team Mentoring, Technical Training (1000+ professionals), Curriculum Development, Performance Optimization.

**Cultural & Educational Impact:** Leveraging Technology for Cultural Preservation, Large-Scale Educational Program Development, Community Building in Data Science, Stakeholder Collaboration (e.g., UNESCO, local institutions).

## LANGUAGES

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**French:** Native

**English:** Fluent (Duolingo English Test Certified)

## CERTIFICATES

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Applied AI with DeepLearning (IBM)

Full Stack Data Science Training (VIVADATA Paris)

## ORGANIZATIONS

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### NVIDIA Deep Learning Institute - Deep Learning Instructor

2022 – Present

Leveraged expertise to deliver Deep Learning Fundamentals workshops for academia, fostering innovation and skill development across the continent.

### Zindi - Volunteer Country Ambassador for Senegal

2021 – Present

Drove data science growth in Senegal by connecting talent with skill-building competitions, forging industry partnerships, and organizing community events, actively contributing to Africa's digital transformation.

## TECHNICAL POC PROJECTS

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**Predicting Customer Churn (2020):** Built an ML model to predict customer churn for Espresso Senegal, optimizing retention strategies.

**Estimated Time for Arrival Hackathon (2019):** Developed an ML model to accurately estimate the time of arrival for motorbike deliveries in Nairobi.

**Detection of the symptoms of Swollen Shoot by drone (2019):** Engineered a drone-embedded ML model to detect Swollen Shoot symptoms with high accuracy in cocoa orchards, aiding agricultural sustainability.