

Training Title: Professional Data Analytics & Generative AI Program

(Excel • KoboToolbox • Python • Power BI • Generative AI)

Duration: 10 Weeks (Intensive Program)

Schedule: Mondays & Wednesdays, 7:30 PM CAT (Live Sessions)

Mode: Virtual (Live + Practical Assignments)

Venue: Online – Global Nexus Institute E-Learning Platform with in-person support

Fee: 120,000 RWF (or 12,000 KES)

Start Date: 29th October 2025

Certificate of Completion – Endorsed by the Institute of Analytics (IOA, UK)

Background and Rationale

Data is the new oil of the digital economy, and the ability to extract meaningful insights from it has become a core skill for businesses, governments, and professionals. Globally, industries are rapidly adopting data analytics and artificial intelligence (AI) to drive evidence-based decision-making, optimize operations, and innovate faster.

However, in many parts of Africa, including Rwanda, there remains a significant skills gap in advanced data analytics and the practical application of AI tools. Professionals and organizations often lack the technical expertise to leverage modern platforms such as Python, Power BI, and generative AI tools, limiting their competitiveness in a data-driven global market.

The Professional Data Analytics & Generative AI Program addresses this gap by providing hands-on, practical training tailored to equip learners with industry-ready skills. Participants will not only gain proficiency in widely used analytics tools but also learn to harness the power of generative AI for smarter insights, automation, and innovation.

This program is designed to transform learners into confident professionals who can clean, analyze, visualize, and interpret data to solve real-world problems—while ensuring they are aligned with international standards, as the certification is endorsed by the Institute of Analytics (IOA, UK).

Training Objectives

By the end of this training, participants will be able to:

- Collect, clean, and analyze data using Excel and Python.
- Build dashboards and visualizations with Power BI.
- Apply generative AI tools to enhance insights, automate reporting, and improve decision-making.
- Integrate Excel, Python, Power BI, and AI into a capstone project solving a real-world problem.
- Gain confidence to work as data analysts, business intelligence specialists, or AI-powered professionals in their fields.

Target Audience

This program is designed for:

- Students and graduates seeking industry-relevant skills in data analytics and AI.
- Working professionals looking to upskill in data analysis, reporting, and automation.
- Entrepreneurs and small business owners interested in using analytics for growth.
- Anyone keen to start a career in data science, Data Analytics, AI, or business intelligence.

No prior technical background is required; the program is beginner-friendly with progressive skill-building.

Core Training Components

1. Excel for Data Analytics
 - o Data cleaning, organization, and basic analysis techniques.
2. Python for Data Analysis
 - o Data wrangling, statistical analysis, and visualization using libraries like Pandas, NumPy, Matplotlib and Seaborn.
3. Power BI for Business Intelligence
 - o Building interactive dashboards and visual reports.
4. Generative AI for Smarter Insights
 - o Using ChatGPT and similar tools for automation, reporting, and decision support.
5. Capstone Project
 - o An integrated project applying Excel, Python, Power BI, and AI to a real-world dataset.

Training Methodology

- Live Sessions: 2 interactive online sessions per week (Mon & Wed).
- Hands-On Assignments: Weekly exercises and projects to practice skills.
- Capstone Project: Real-world project integrating all tools.
- Learning Resources: Curated readings, video tutorials, and recorded sessions.
- Mentorship: Guidance and feedback from experienced trainers.

Expected Outcomes

At the conclusion of the training, participants will:

- Be proficient in Excel, Python, Power BI, and generative AI tools.

- Develop practical data analytics workflows to clean, analyze, and visualize data.
- Automate reporting and decision-making tasks using AI.
- Present a portfolio-ready capstone project showcasing their skills.
- Earn a globally recognized certificate endorsed by IOA.

Lead Trainer's Profile

The program is delivered by seasoned data professionals and AI practitioners affiliated with the Global Nexus Institute, an accredited training center based in Kigali, Rwanda. Trainers bring extensive experience in data analytics, AI, and capacity building across East Africa, ensuring practical and relevant delivery.

Registration and Payment

Registration Link: <https://forms.gle/HJnAKnfsWM5kc7Pw9>

Payment Link: <https://flutterwave.com/pay/g5oihrkrbzfj>

Fee: 120,000 RWF | 12,000 KES

Deadline: 29th October 2025

Discounts are available for students, women, and other individuals in need.

Post-Training Community

Participants will join the Global Nexus alumni network, gaining access to ongoing mentorship, peer learning, and regional opportunities in data and AI fields.

Data Scientist & Trainer Lead

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