

ERICK OTIENO ONYANGO

DATA SCIENTIST | GENERATIVE AI | MACHINE LEARNING | DATA ANALYTICS

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PROFESSIONAL SUMMARY

Data Scientist and Generative AI practitioner with experience in Python-based data science, data mining and exploratory analysis, machine learning, deep learning, predictive modeling, visualization, model evaluation and deployment, and LLM applications. Background also includes business data analysis, KPI reporting, software engineering, and production business systems. First Class Honours Computer Science graduate with certifications in Power BI, AWS Cloud, Data Engineering, AI, and Agentic AI.

TECHNICAL SKILLS

Data Science & Analytics: Python, data mining, exploratory data analysis (EDA), predictive modeling, customer analytics, KPI analysis

Machine Learning & AI: supervised learning, unsupervised learning, deep learning, model evaluation, computer vision, NLP

Generative AI & LLMs: OpenAI, Llama, LangChain, Gemini, AI agents and Agentic AI foundations

Visualization & BI: Power BI, Tableau, dashboards, reporting, stakeholder-ready visualizations

Deployment & Data: AWS, Flask, MySQL, REST APIs, Git/GitHub, database integration

Software Development: React.js, Next.js, JavaScript, TypeScript, HTML/CSS

PROFESSIONAL EXPERIENCE

Data Scientist | Generative AI Expert | Software Engineer | Martjal Jenga Labs | Jul 2024 - Present

- Apply Python for data science, data mining, exploratory data analysis, and visualization using Tableau and Power BI.
- Work with supervised and unsupervised machine learning, deep learning, model evaluation, and deployment using AWS and Flask.
- Develop solutions across computer vision, NLP, Generative AI, and LLM workflows using OpenAI, Llama, LangChain, and Gemini.

Data Science Job Simulation (Forage) | British Airways | Aug 2025 - Present

- Completed a data science simulation focused on how analytics supports British Airways business decision-making.
- Scraped and analyzed customer review data to uncover findings and customer insights.
- Built a predictive model to understand factors influencing customer buying behavior.

Data Analyst | Ramco Group (ICT Africa), Kenya | Sep 2022 - Feb 2024

- Collected and analyzed business data from multiple sources to support operational reporting and business decision-making.
- Developed recurring KPI reports and dashboards highlighting performance trends and operational insights.
- Translated complex data into clear visualizations for non-technical stakeholders and documented analytical methods.

ICT Officer / IT Support Specialist | Office of the Attorney General, Department of Justice, Kenya | Apr 2024 - Present

- Support business systems and a large user base while maintaining technical records and contributing to implementation of new systems and technologies.
- Monitor systems and security logs, support incident remediation and vulnerability management, and assist with business-continuity activities.

Freelance Software Developer | Self-Employed, Kenya | Feb 2025 - Present

- Design, deploy, and maintain business applications; translate client requirements into secure technical solutions and manage database integration, testing, deployment, and support.
- Built systems supporting e-commerce, point-of-sale, inventory, user roles, transaction accountability, and payment workflows.

Additional Experience: Volunteer ICT Specialist, Deadan Group Limited (Mar 2025 - Sep 2025); ICT Intern, Ministry of East African Community (Aug 2021 - Mar 2022).

EDUCATION

Bachelor of Science in Computer Science - First Class Honours | St. Paul's University, Kenya | 2017 - 2022

Dean's List of Honour Award, 2021-2022 | Relevant coursework: Advanced Database Systems, Distributed Systems, Operating Systems, IT Project Management

PROFESSIONAL CERTIFICATIONS

Power BI | Introduction to AWS Cloud | Intro to Data Engineering | Intro to AI | Intro to AI Agents and Agentic AI - 365 Data Science, issued Nov 2025

LANGUAGES

English - Professional proficiency | Kiswahili - Professional proficiency