Dave Emery Otieno

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Professional Summary

I am a versatile professional with a Bachelor of Engineering in Electrical and Electronics Engineering and extensive certifications in data science, analytics, and artificial intelligence. I have demonstrated expertise in data collection, analysis, and visualization through hands-on projects and teaching roles. I have a proven ability to extract actionable insights from complex datasets, develop data-driven solutions, and communicate findings effectively to diverse stakeholders. Strong foundation in Python programming, SQL database management, and machine learning, complemented by practical engineering experience and a commitment to continuous learning in emerging technologies.

Education

Bachelor of Engineering in Electrical and Electronics Engineering
Moi University — Eldoret

Technical Skills

Programming & Data Analysis: Python (Pandas, NumPy, Matplotlib, Seaborn), SQL (PostgreSQL, MySQL), Advanced Excel (Pivot Tables, VLOOKUP, INDEX-MATCH, Conditional Formatting), Jupyter Notebook, Data manipulation and transformation, Statistical analysis, Exploratory Data Analysis (EDA).
Data Science & Machine Learning: Machine Learning algorithms, Neural Networks, Predictive modeling, Feature engineering, Model evaluation, Watson Studio, AI applications and ethics.
Database & Data Management: Database querying and design, Complex JOIN operations, Subqueries and aggregate functions, Window functions, Data validation and integrity, Query optimization.
APIs & Development Tools: Postman API testing
AI & Emerging Technologies: Artificial Intelligence fundamentals, Industrial Internet of Things (IIoT), Industry 4.0
Professional & Productivity: MS Office Suite (Word, PowerPoint, Excel, Outlook, Access), Google Workspace (Docs, Sheets, Forms), Technical writing, Document preparation and organization, Project management basics, Virtual assistance.
Soft Skills: Analytical thinking, Problem-solving, Attention to detail, Critical thinking, Cross-functional collaboration, Communication and presentation, Customer service excellence, Time management, Continuous learning, Adaptability.

Professional Experience

Teaching Instructor (Part-Time) — Python Programming　　　　　　　　　　　　Jan 2025 – Present
WatotoNaCodi

- Deliver personalized Python programming instruction to children and beginner learners, covering fundamentals including data types, control structures, and functions.

- Develop and adapt curriculum based on individual learner needs, progress analysis, and feedback patterns.

- Guide learners through problem-solving exercises that develop logical, analytical, and computational thinking skills.

Events Support Assistant (Part-Time)　　　　　　　　　　　　　　　　　　　　　　2025
IDP Education

- Represented IDP Education during educational expos and IELTS events, managing high-volume student queries and providing excellent customer service.

- Gathered and analyzed real-time attendee feedback to identify improvement opportunities in event experience and service delivery.

- Maintained accurate databases of attendee information, event metrics, and support queries with high attention to detail.

Teaching Assistant (Voluntary) — Data Analysis with Python　　　　　　　　　Oct 2024 – Present
AI Community Africa (DataCamp Collaboration)

- Analyze student performance data and feedback to identify learning gaps, patterns, and opportunities for curriculum improvement.

- Guide learners through practical data manipulation, visualization, and statistical analysis exercises using Python, Pandas, and NumPy.

- Review and provide detailed, constructive feedback on coding assignments, ensuring quality standards and best practices.

- Track learner progress metrics, satisfaction levels, and completion rates, reporting trends to course instructors.

Electrical and Electronics Engineering Attaché   May 2024 – Jul 2024
RIVATEX EAST AFRICA — Eldoret, Kenya
Gained hands-on experience in industrial electrical systems, power distribution, troubleshooting, and manufacturing operations.

Engineering Attaché   Jun 2023 – Aug 2023
Kenya Ports Authority — Nairobi, Kenya
Participated in port operations, infrastructure management, and learned about electrical installations and power systems in maritime facilities.

Data Collector — IRED Renewable Energy Program   Dec 2021
Moi University — Eldoret

- Conducted extensive data collection for renewable energy research program covering solar, wind, and bioenergy sources.

- Designed systematic data collection methodologies using SQL queries and database structures to ensure consistency and accuracy.

- Performed data validation, cleaning, and transformation using Python (Pandas, NumPy) to maintain data quality and integrity.

- Analyzed large datasets to identify trends, patterns, and insights, generating comprehensive reports and visualizations.

Projects & Leadership

Learning Tracks Lead — GDSC Moi University   Sep 2023 – Aug 2024

- Monitored participant progress and satisfaction across technology workshops, developing structured curriculum based on feedback analysis.

- Created comprehensive reporting systems to track engagement metrics, completion rates, and performance indicators.

- Managed volunteer teams ensuring consistent quality of service delivery across all learning tracks and participant touchpoints.

Regina Yego Solar Installation — IEEE Project
Moi University IEEE Branch

- Collaborated with engineering team to design and deliver solar power installation, achieving 95% efficiency through data-driven optimization.

- Performed load calculations and electrical analysis to optimize solar power system configuration and performance.

- Generated detailed technical reports documenting performance metrics, system specifications, and maintenance procedures.

Professional Certifications

Data Science & Analytics:

- Data Science Mentorship Program (Everything Data Community, Oct 2025) — Data Analysis, Python, Machine Learning, Data Visualization, Statistical Analysis

- Data Scientist Associate (DataCamp, Oct 2025) — Advanced analytics, predictive modeling, statistical inference, machine learning fundamentals

- Data Analyst Certificate (DataCamp, May 2025) — Analytic fundamentals, data management, exploratory analysis, visualization and reporting

- Data Analyst Associate (DataCamp, May 2025) — Entry-level professional competency, data management, statistical experimentation

- Python Data Associate (DataCamp) — Python programming, Pandas, NumPy, data manipulation, visualization, statistical analysis

- SQL Associate Certificate (DataCamp, Mar 2025) — PostgreSQL, database querying, exploratory data analysis, data management

- Data Literacy Fundamentals (DataCamp, Mar 2025) — Data interpretation, data literacy, data analysis foundations

Business Intelligence: Career Essentials in Data Analysis (Microsoft & LinkedIn, May 2025) — Business analytics, data visualization techniques, data-driven decision making, Microsoft data tools

Artificial Intelligence:

- AI Career Essentials (ALX Africa, Aug 2024) — AI-augmented professional skills, AI in business, digital transformation

- Artificial Intelligence Fundamentals (IBM SkillsBuild, Jun 2024) — Watson Studio, neural networks, AI applications, AI ethics, AI capabilities

- Artificial Intelligence (SkillUp Online, Aug 2024) — AI fundamentals and applications

Industry 4.0 & IoT: IIoT Mini-Course (4.0 Solutions, Jul 2024) — Industrial Internet of Things, Industry 4.0, digital transformation

APIs & Development: Postman API Fundamentals Student Expert (Postman, May 2024) — API testing, RESTful services, API development

Professional Skills:

- Virtual Assistant Certificate (ALX Africa, Oct 2024) — Virtual assistance, email and calendar management, online research, customer support, collaboration tools, document preparation, data entry, project management

- Technical Writing Bootcamp (LuxDevHQ, Jul 2023) — Technical documentation, research skills, communication, creative writing

- International Computer Drivers License — ICDL (KCA University, Jun 2019) — MS Office Suite proficiency (Word, Excel, PowerPoint, Access)