ISHIMWE SANGWA PEACE

Data Scientist & Mathematical Specialist

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in 🔗 peacesangwa

"Transforming data into meaningful insights for impactful decision making"

👤 Professional Profile

A forward-thinking mathematician and emerging data scientist with a passion for transforming complex data into actionable insights. Combines analytical expertise with strong leadership abilities and an unwavering commitment to community impact. Adept at applying mathematical principles to real-world challenges, with skills in data collection, statistical modeling, data analysis, and project management. Seeking opportunities to leverage analytical capabilities to drive innovation and create positive societal change.

🎓 Education

2022 – 2025 **Bachelor of Applied Sciences in Applied Mathematics**, *University of Rwanda*, Kigali, Rwanda
Relevant coursework: Statistical Analysis, Calculus, Linear Algebra, Differential Equations, Numerical Methods, Mathematical Modeling, Probability Theory

2024 – 2025 **Certificate in Data Science**, *ALX Africa*, Kigali, Rwanda
Focus areas: Python for Data Analysis, Machine Learning Fundamentals, Data Visualization, Statistical Computing

💼 Professional Experience

July 2024 – August 2024 **Data Scientist Intern**, *Rwanda Revenue Authority*, Kigali, Rwanda
- Cleaned and preprocessed large datasets to improve data quality, resulting in 30% reduction in processing time
- Conducted exploratory data analysis to identify patterns and trends in tax compliance data
- Applied statistical models to predict revenue outcomes based on historical data
- Collaborated with cross-functional teams to develop data-driven solutions for tax administration
- Presented analytical findings to management team, informing policy decisions

2023 – 2025 **President**, *Mathematics and Statistics Students' Association of Rwanda (MSAR)*, University of Rwanda
- Lead a team of 10 executive members in planning and executing academic and professional development events
- Established a peer tutoring program benefiting over 200 mathematics students annually
- Organized the first-ever MSAR Data Science Competition with participation from 15 universities
- Secured partnerships with 5 industry organizations for student internships and mentorship programs
- Implemented strategic initiatives resulting in 40% membership growth within one year

May 2025 **Data Collector**, *Data + Rwanda in collaboration with WaterAid*, Bugesera Disrict
- Collected field data on water access and usage in schools and nearby households across Bugesera District
- Conducted interviews and surveys to assess water sources, treatment methods, and accessibility challenges
- Ensured data quality by verifying responses and accurately entering findings into kobo Toolbox
- Contributed to a comprehensive report supporting WaterAid's interventions for improved water and sanitation infrastructure

Technical Skills

Programming & Tools

Data Collection	Kobo Toolbox, Google forms
Data Analysis	Python,Excel
Visualization	Power BI, Matplotlib
Statistics	Hypothesis Testing, Regression
Machine Learning	Classification, Clustering

Leadership & Soft Skills

Leadership	Strategic Planning, Team Management	Interpersonal	Collaboration, Mentoring, Negotiation
Communication	Public Speaking, Technical Writing	Problem Solving	Critical Thinking, Decision Making
Project Management	Agile Methodologies, Risk Assessment	Work Style	Adaptability, Time Management

Certifications & Achievements

2025	Advanced Excel & Power BI Training Certificate, Data + Rwanda
2024	Fundamentals of Data Analysis with Excel Certificate, Global Nexus Institute
2023	National Bank of Rwanda Monetary Policy Challenge Participant

Languages

Kinyarwanda	Native
English	Professional Proficiency
French	Intermediate

Interests

Professional	Data Visualization, AI Ethics, Data Science , Mathematics Education
Personal	Sports, Community Service, Personal Growth, Language Learning

Professional References

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