

Innocent Nzimenyera

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Summary Section

Digital and data leader with deep strength in mathematics, statistics, and AI skilled at turning complex datasets into clear, high-impact decisions. I connect business and tech to deliver models and dashboards that improve growth, efficiency, and customer experience.

Education Background

Carnegie Mellon University

Master of Science in Information Technology

Specialization in Applied machine learning, Data Science

University of Rwanda, College of Science and Technology

BSc (Hons) in Computer Science

Group scolaire Remera Rukoma

High school certificate in Mathematics, Physics, and Computer Science

Aug 2022-May 2024

Kigali, Rwanda

Sep 2015-Nov 2019

Huye and Kigali, Rwanda

Sep 2012-Nov 2014

Kamonyi, Rwanda

Work Experience

Global Green Growth Institute.

AI and Data Analyst

Nov 2024-Present

Kigali, Rwanda

- Designed a dashboard allowing policymakers to explore the Green Growth Index and data.
- Developed an online policy simulation model incorporating dozens of variables using a statistical and AI-driven economic model: <https://ggindex-simtool.gggi.org/>
- Took the initiative to decrease time spent on data collection and easy processing through pipeline automation.
- Support the drafting and editing of reports for publication.
- Trained team members in modeling and coding best practices.

United Nations/International Telecommunication Union (ITU)

AI for Good Scholar - Hybrid

Apr 2024- July 2025

Geneva, Switzerland

- Conducting research for the projects focused on AI for SDGs
- Analyse and improve the AI use cases.
- Communicating findings and insights effectively
- Collaborating with international use cases authors on AI projects

Global Green Growth Institute.

Data Science Consultant - Remote

June 2021-Oct 2024

Seoul, South Korea

- Collaborate with the GGPM Team to establish databases, tools, guidelines, and documentation. Conduct data collection, analysis, and reporting for the Green Growth Index and Simulation Tool.
- Develop Python scripts to extract data from international organization databases.
- Apply statistical methods to improve the quality and understanding of existing data.
- Maintain knowledge excellence and support capacity-building workshops and conferences for internal and external audiences.

Carnegie Mellon University.

Graduate Teaching Assistant (Data Analytics and Practicum courses)

Aug 2023-May 2024

Kigali, Rwanda

- Assisting with course delivery using Python programming language
- Implementing AI algorithms for automated grading and performance assessment to ensure consistency and efficiency.
- Student Support and Engagement

- Collaborate with the team to perform requirements analysis and research, leveraging AI tools for data insights and trend identification.
- Oversaw data collection using quantitative and qualitative methods.
- Share insights with teams using AI-driven visualization and reporting.

Rwanda Ministry of ICT and Innovation.
Digital Ambassador

Sept 2019-June 2021
Kigali, Rwanda

- Preparing ICT training for people to increase their digital literacy, resulting in increased access to ICT and the use of online systems and services.
- Updated course content depending on the user's adaptabilities.
- Creating and monitoring user-friendly templates for other team members used for reporting.

National Bank of Rwanda.
Intern

Jun 2018-Oct 2018
Kigali, Rwanda

- Offered tech support using a help desk app, including research-related tasks.
- Conducted researched local domains, banking security, and technology aspects such as networking, database, and data warehouse.
- Collaborated with departments to ensure smooth technology operations.

Ministry of Education
Data Entry Clerk

Jun 2016-June 2018
Kigali, Rwanda

- Accurately input and update data into various systems and databases.
- Verify the accuracy and completeness of data before entry.
- Perform regular data backups to ensure data preservation and maintain and manage digital and physical records.
- Conduct regular data quality checks and correct any discrepancies.

Research & Technical Publications

- 2025 AI for Good Innovate for Impact report: [link](#)
- Network science and explainable AI-based life cycle management of sustainability models: [Link](#)
- Report for the "2024 AI For Good" initiative, focusing on the UN's Sustainable Development Goals (SDGs): [Link](#)
- Kenya National Green Growth Index 2023: [Link](#)
- Ghana National Green Growth Index 2023: [Link](#)
- Global Green Growth Index 2022: [Link](#)
- Global Green Growth Index 2021: [Link](#)
- Azerbaijan's Transition to Green and Inclusive Growth - A Comparative Assessment with the Central Asian Countries: [Link](#)
- Zambia National Green Growth Index 2022: [Link](#)
- Green and Blue Economy Synergy – Concepts and Methods for the OECS Green-Blue Growth Index: [Link](#)
- Efficient Connected Components Solution Using Depth-First Search Algorithm: [Link](#)

Skills

- **Programming Languages & database:** Python, JavaScript, Vue.js, C, C++, Java, QSL, Access, Oracle database, PostgreSQL
- **IT skills:** LINUX, Windows, Git, Bash, Microsoft Office all versions, drow.io, GitHub, and GitLab,
- **Statistical software skills:** Stata, SPSS, Tableau, Power BI, R, MATLAB, and Advanced Excel
- **Deep Learning:** CNNs, RNNs and GANs
- **Machine Learning Frameworks and Libraries:** TensorFlow, PyTorch, Scikit-learn and Keras
- **Natural Language Processing (NLP):** Text mining, Sentiment analysis and Language modeling

- **Languages:** Kinyarwanda (Native), English (Fluent), French (Basic), Swahili (Basic)

Projects

- Green Growth Indexes and Simulation tools: [Link](#)
- AI- Supported Green Growth Simulation Tool for Assessing SDG Co-benefits: [GitHub link](#) [website link](#)
- Efficient Connected Components Solution Using Depth-First Search Algorithm: [Link](#)
- Learn Python for Machine learning: [Link](#)

Public Service & Volunteer Work

Rwanda Space Agency & CMU-Africa.

Jun 2023-April 2024

Research and Data Analyst

Kigali, Rwanda

- Acquiring, cleaning, and organizing data from various sources.
- Applying statistical methods and creating visual representations to identify trends and insights.
- Support Agri-yield research with spectral signatures and machine-learning modelling.
- Working with stakeholders and team members to address data-related issues and provide actionable recommendations.

United Nations.

Jul 2019-June 2021

Volunteer

Kigali, Rwanda

- Engaging in practical mobilization efforts to generate funds for the Cameroon Association of Active Youths (CAMMAY) by utilizing social media platforms for impactful outreach and fundraising initiatives.