

# Innocent Nzimenyera

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## Summary Section

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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

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### 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–Nov2019

Huye and Kigali, Rwanda

Sep 2012–Nov2014

Kamonyi, Rwanda

## Work Experience

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### 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

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- 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

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- **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,
- **Statical 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

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- 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

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**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.