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## Vital Ahishakiye

### Data Scientist

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Portfolio: [vital-ahishakiye.github.io/](https://vital-ahishakiye.github.io/)

Phone: (+250) 788519271

Location: Kigali, Bumbogo, KG 7 Avenue

### SKILLS

- **Technical Expertise:** Python, SQL, ArcGIS Pro, Tableau
- **Data Science Competencies:** Exploratory Data Analysis, Regression Analysis, Advanced Statistical Modelling, Predictive Analytics
- **Geospatial Analytics:** Data Collection, Geo-Data Interpretation, Visualization
- **Soft Skills:** Analytical Thinking, Stakeholder Communication, Cross-functional Team Collaboration, Project and Team Management

### EXPERIENCE

#### Graduate Research Assistant

*Carnegie Mellon University - Africa | Sept 2024 – Present*

- Analysed cost and time efficiencies between moto taxis and other vehicles using over 5 million GPS trip records.

#### Graduate Research Summer Intern

*Carnegie Mellon University - Africa | June 2024 – Aug 2024*

- Collected and organized mobility data from stakeholders to support the development of a digital twin for Kigali City, enabling analysis of transportation patterns and characteristics as part of an ongoing research initiative.

#### Photovoltaic System Designer

*Mighty Engineering Company Ltd | Mar 2023 – July 2023*

- Led a team of four electrical engineers to deliver solar energy solutions across five U.S. states.
- Designed 110+ solar projects and created 30 CAD catalogues for residential installations in Rhode Island, Massachusetts, New York, Vermont, and Connecticut.

### PROJECTS

- **Educational Accessibility in Rwanda:** Explored relationships between basic education infrastructure and demographic distribution using schools and 2022 census data - [link](#).
- **Unemployment Factors in Rwanda:** Investigated key contributors to unemployment using Rwanda's 2022 Census data - [link](#).
- **Palm Tree Detection:** Developed a model for palm tree detection and counting.

### EDUCATION

#### Master of Science in Electrical and Computer Engineering

*Carnegie Mellon University - Africa | Pending Graduate*

#### Advanced Data Analytics (Google Career Certificate)

*Coursera | Completed Sept 2024*

#### Bachelor of Science in Electrical Power Engineering

*University of Rwanda - College of Science and Technology | Graduated May 2021*

### VOLUNTEERING

#### Social Affairs Minister

*Student Guild, Carnegie Mellon University - Africa 2024*

#### Data Analyst

*Statistics Without Borders | Present*

- Provided data analytics expertise to support underprivileged communities worldwide.