
Vital Ahishakiye

Data Scientist

Email: vitalahishakiye@gmail.com

LinkedIn: [linkedin.com/in/vital-datascientist](https://www.linkedin.com/in/vital-datascientist)

Portfolio: 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, Dashboard and story map Visualization, Remote Sensing
- **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 over 5M cab and moto taxi trips and conducted a survey on transportation modes in Kigali, focusing on user satisfaction and wait times.
- Co-authored "Towards Digital Twins for Urban Mobility in Emerging Economies", examining mobility patterns and cost-time efficiency across various modes.
- Delivered insights to inform policymakers and optimize urban mobility strategies.

Graduate Research Summer Intern

Carnegie Mellon University - Africa | June 2024 – Aug 2024

- Collaborated with government and private institutions to collect and process over 15M mobility data entries (2017–2023).
- Built a data pipeline that streamlined processing, facilitating the creation of two research papers on intelligent transportation.

OTHER 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](#).
- **Automated Palm Tree Counting:** Replaced manual counting of drone-captured images with an automated detection system, reducing processing time from over 12 minutes per image to less than one second, improving efficiency and accuracy.
- [More](#)

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

- Led a team of 8 from 4 nationalities to implement 4 impactful initiatives, enhancing the well-being and engagement of 300+ students from 22 countries.

Data Analyst

Statistics Without Borders | Present

- Supported a nonprofit in analysing attendance data to improve education outcomes in remote Indigenous communities.
- Developed dashboards and analytics to track progress toward increasing high school graduation rates.