

Albert NDENGEYINTWALI

Passport: PC770448 **Nationality:** Rwandan **Date of birth:** 01/01/1997 **Place of birth:** Kigali, Rwanda

Gender: Male **Phone number:** (+250) 782261670 **Email address:** ndengeyintwali1997@gmail.com

LinkedIn: [NDENGEYINTWALI Albert](#)

Website: <https://albertndengeyintwali.github.io/portfolio/>

Home: KG 389 Street, Kigali (Rwanda)

ABOUT ME

I am deeply passionate about Artificial Intelligence and data science. I have extensive experience in data analysis, and reporting. I have an in-depth knowledge of data analysis tools, such as Python, R, MATLAB, Stata, SPSS, Power BI, and Advanced Excel, and I can quickly find patterns and insights from large datasets. My ability to develop and implement data-driven solutions to business problems has helped drive organizational growth and performance.

EDUCATION AND TRAINING

M.Sc. Mathematical Sciences

African Institute for Mathematical Sciences (AIMS) [30/08/2023 – 17/10/2024]

City: Kigali | Country: Rwanda | Website: www.aims.ac.rw/

B.Sc. Mathematics and Statistics

University of Rwanda [01/09/2019 – 17/11/2023]

City: Kigali | Country: Rwanda | Website: www.ur.ac.rw

WORK EXPERIENCE

Malaria modeller in Rwanda Biomedical Center (RBC)

[03/06/2024 – 30/09/2024]

Address: KG 644 St, P.O. Box 7162 , Kigali (Rwanda)

- **Cleaned** and **managed** malaria vector species composition data from multiple sites implementing IRS and LLINs.
- **Developed** and **applied** Poisson Generalized Linear Models (GLM) to analyze trends in mosquito species distribution and the impact of vector control interventions.
- **Generated** reports and visualizations to support malaria control decision-making.
- **Contributed** to writing the **National Malaria Report (Fiscal Year 2023-2024)** by analyzing data trends and vector control outcomes.
- **Contributed** to the research on malaria case distribution, **collecting and analyzing** case data to investigate high malaria incidence trends in specific districts.
- **Collaborated** with field teams to enhance data collection methodologies for improved disease surveillance.

Training Coach – Pan-African Mathematics Olympiad (PAMO), AIMS Rwanda

[25/12/2022 – 13/08/2023]

Address: KN 3 Rd, Kigali (Rwanda)

- **Provided** tailored coaching and problem-solving strategies to enhance participants' mathematical skills and confidence for the **Pan-African Mathematics Olympiad (PAMO)**.
- **Designed** and **delivered** personalized training sessions focusing on advanced mathematical concepts and competition techniques.
- **Conducted** rigorous practice sessions to strengthen students' problem-solving abilities and logical reasoning.
- **Mentored** participants through one-on-one guidance, helping them develop strategic thinking and analytical skills.

- **Prepared** students for high-stakes problem-solving by simulating real competition environments.
- **Empowered** aspiring mathematicians with essential knowledge to excel on the regional stage.

Rwanda ICT Chamber intern

[20/04/2022 – 30/05/2022]

Address: 44 KG 548 St, Kigali (Rwanda)

- **Cleaned, processed, and validated** large datasets to ensure accuracy and reliability for business insights.
- **Conducted** exploratory data analysis (EDA) to uncover hidden patterns and trends for strategic decision-making.
- **Developed** interactive dashboards and reports using **MS Excel** and **Power BI**, improving stakeholder data interpretation.
- **Automated** data workflows to streamline reporting processes, reducing manual effort and enhancing efficiency.
- **Generated** business intelligence insights, enabling organizations to optimize operations and improve performance.
- **Collaborated** with teams to identify data-driven solutions for industry challenges, supporting digital transformation initiatives.

TRAINING AND FURTHER COURSES WITH RELATED CERTIFICATIONS

[02/2024]

MODERN STATISTICS AND MACHINE LEARNING FOR GLOBAL HEALTH

- **Completed** advanced training in *Modern Statistics and Machine Learning for Global Health*, organized and taught by **Imperial College London** and **AIMS**.
- **Gained expertise** in statistical modeling, data-driven decision-making, and machine learning applications in global health research.
- **Applied** modern statistical techniques to analyze health data, uncover trends, and support evidence-based policymaking.
- **Developed** machine learning models to predict health outcomes and optimize public health interventions.
- **Explored** real-world case studies demonstrating the impact of data science in tackling global health challenges.
- **Enhanced** proficiency in programming tools such as **R** for health data analysis and predictive modeling.

[07/2023]

Business Intelligence (BI)

- **Completed** training in **Business Intelligence (BI)**, organized by **Rwanda ICT Chamber & Natcom Services Ltd.**
- **Developed** interactive dashboards and reports using **Power BI**, providing actionable business insights for stakeholders.
- **Extracted, cleaned, and transformed** large datasets to ensure accurate and reliable decision-making in business operations.
- **Analyzed** key business metrics to identify trends, patterns, and opportunities for optimization and growth.
- **Created** automated reporting systems to streamline data analysis, reducing manual effort and improving efficiency.
- **Utilized SQL** and **Excel** for data querying, manipulation, and visualization in BI projects.
- **Generated** business intelligence reports that supported **strategic planning** and performance evaluation.
- **Collaborated** with stakeholders to define BI requirements and translate complex data into meaningful insights.
- **Applied predictive analytics** to enhance forecasting and optimize business decision-making.

[12/2022]

ICT training BootCamp under the Data Analytics track

- **Completed** an intensive **Data Analytics BootCamp** under the guidance of **Carnegie Mellon University**, focusing on advanced analytics techniques using **Python**.
- **Developed** proficiency in **Python programming**, including libraries such as **Pandas**, **NumPy**, and **Matplotlib** for data manipulation, analysis, and visualization.
- **Worked** on real-world datasets, applying **data cleaning, transformation, and exploration** techniques to derive actionable insights.
- **Built** predictive models and conducted **statistical analysis** to uncover trends and patterns in data.
- **Created** interactive visualizations and reports using **Python**, enabling stakeholders to easily interpret complex data.
- **Enhanced** understanding of **data pipelines**, from data collection and cleaning to model deployment and reporting.
- **Applied** machine learning techniques in **Python** to build models for classification and regression tasks.

[08/2022]

Casualty Actuarial Society (CAS)

- **Completed** professional training with **The Casualty Actuarial Society (CAS)**, a leading actuarial organization based in Arlington, Virginia, USA.
- **Gained expertise** in **Property and Casualty (P&C) insurance fundamentals**, including risk assessment, pricing, and claims analysis.
- **Developed** strong **Excel** skills for data analysis, financial modeling, and actuarial computations.
- **Mastered data visualization techniques** to communicate complex actuarial insights effectively.
- **Applied ratemaking and reserving methodologies** to evaluate insurance pricing strategies and liability forecasting.
- **Trained** in **predictive modeling**, leveraging statistical techniques to assess risks and optimize decision-making.
- **Enhanced soft skills**, including problem-solving, teamwork, and communication, essential for actuarial and analytical roles.

DIGITAL SKILLS

Digital Skills - Test Results

	Information and data literacy	ADVANCED	Level 6 / 6
	Communication and collaboration	ADVANCED	Level 6 / 6
	Digital content creation	ADVANCED	Level 6 / 6
	Safety	ADVANCED	Level 5 / 6
	Problem solving	ADVANCED	Level 6 / 6

Results from [self-assessment](#) based on [The Digital Competence Framework 2.1](#)

LANGUAGE SKILLS

Mother tongue(s): Kinyarwanda

Other language(s):

English

LISTENING C1 READING C1 WRITING C1
SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING A2 READING A2 WRITING A2
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user