Albert NDENGEY-INTWALI

Passport: PC770448

Date of birth: 01/01/1997

Place of birth: Kigali, Rwanda

Nationality: Rwandan

Gender: Male

CONTACT

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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

30/08/2023 – 17/10/2024 Kigali, Rwanda

M.Sc. Mathematical Sciences African Institute for Mathematical Sciences (AIMS)

Website www.aims.ac.rw/

01/09/2019 – 17/11/2023 Kigali, Rwanda

B.Sc. Mathematics and Statistics University of Rwanda

Website www.ur.ac.rw

WORK EXPERIENCE

RADIANT YACU INSURANCE Kigali, Rwanda

Insurance underwriter
09/02/2026 – Current
- Assess and evaluate insurance applications by analyzing risk exposure, financial information, and claims history.
- Determine appropriate coverage terms, limits, and premium pricing based on underwriting guidelines and risk analysis.
- Apply quantitative and data-driven techniques to improve risk assessment and pricing accuracy.
- Review loss ratios and portfolio performance to ensure profitability and sustainable risk management.
- Collaborate with brokers/agents to clarify risk details and communicate underwriting decisions effectively.
- Ensure compliance with regulatory requirements and internal underwriting policies.

Ministry of Public Service and Labour (MIFOTRA - Rwanda) Kigali, Rwanda

Address KG 7 Ave ; P.O.BOX: 403, Kigali, Rwanda

Young Proffessional Data Scientist
10/02/2025 – 11/02/2026
- Conducted data merging and cleaning across multiple government HR and internship datasets to support evidence-based policy formulation.
- Designed and implemented internship impact assessment models to evaluate skill development and employment outcomes.
- Created interactive dashboards and reports to inform decision-makers on workforce trends and public service performance.
- Collaborated with different departments to gather, standardize, and integrate datasets for strategic planning.

- Utilized R and Python to perform statistical analyses on civil service productivity and training effectiveness.
- Supported automation of routine data tasks, improving efficiency in data reporting and monitoring.
- Provided technical input on data quality improvement and digital transformation initiatives within the ministry.

Rwanda Biomedical Center (RBC) Kigali, Rwanda

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

Infectious Disease modeller (Malaria)

03/06/2024 – 30/09/2024
- 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.

African Institute for Mathematical Sciences (AIMS) Kigali, Rwanda

Address KN 3 Rd, Kigali, Rwanda

Training Coach – Pan-African Mathematics Olympiad (PAMO)

25/12/2022 – 13/08/2023
- 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.

TRAINING AND FURTHER COURSES WITH RELATED CERTIFICATIONS

29/08/2025

Public Finance: Insurance and Risk Finance for the SDGs
- Gained understanding of public finance strategies for achieving the SDGs.
- Learned to assess vulnerability and calculate risk using hazard, exposure, and vulnerability.
- Acquired knowledge of risk management tools: risk retention, reduction, mitigation, and transfer.
- Understood the role of insurance and risk finance in protecting individuals, communities, and governments.
- Learned how financial protection supports resilience, accelerates recovery, and enables sustainable investment.
- Explored inclusive insurance approaches and strategies to mobilize resources for development.

Link https://certificates.easygenerator.com/68a2063b97d4080007747180.pdf

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

LANGUAGE SKILLS

MOTHER TONGUE(S): Kinyarwanda

Other language(s):

English

Listening C1
Spoken production C1
Reading C1
Spoken interaction C1
Writing C1

French

Listening A2
Spoken production A2
Reading A2
Spoken interaction A2
Writing A2

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