

## EDUCATION

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### •Postgraduate Certificate in Business Management

*Industry Immersion Africa, Ghana*

2024

### •Master of Science in Mathematical Sciences

*African Institute for Mathematical Sciences (AIMS), Rwanda*

2023-2024

### •Bachelor of Science in Statistics and Applied Mathematics

*The Copperbelt University, Zambia*

2019-2023

## PERSONAL PROJECTS AND RESEARCH

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### •Bank Customer Churn Prediction

*Industry Immersion Program*

*Developed a machine learning model to predict whether a bank customer would stay or leave.*

2024

- Employed the Random Forest Classifier to build the model.
- Achieved an accuracy of 86%, indicating that 86% of the predictions were correct.
- The model achieved a precision of 87% and a recall of 97% in predicting customers who stayed with the bank.
- Interactive Dashboard Developed an interactive dashboard using Streamlit for visualizing customer churn data.

### •Geophysical Inversion Using Gaussian Processes

*AIMS Rwanda*

*Utilized Gaussian Processes to train machine learning models for subsurface frontier recovery.*

2024

- Addressed a non-linear ill-posed inverse problem by applying advanced machine learning techniques.
- Developed synthetic data using a forward model for training and parameter estimation.

### •COVID-19 Data Analysis

*The Copperbelt University, Zambia*

*Conducted a statistical analysis of COVID-19 data to identify trends and patterns.*

2021

- Utilized statistical tools to analyze and visualize the spread of the pandemic.
- Generated insights that contributed to the understanding of COVID-19 transmission.

### •Mathematical Modeling of Infectious Diseases

*The Copperbelt University, Zambia*

*Developed mathematical models to predict the spread of infectious diseases.*

2022

- Applied differential equations and statistical methods to simulate disease dynamics.
- Presented findings that were used in local health policy discussions.

## EXPERIENCE

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### •Management Trainee

*January - Present*

*FNB Zambia, Lusaka, Zambia*

2026

- Support Bancassurance operations through execution, monitoring, and reporting.
- Assist customer-focused product, sales, and service initiatives.
- Collect, analyze, and report data to support decision-making.
- Support innovation and cross-functional initiatives to improve efficiency.
- Complete training assignments within a structured graduate development program.
- Participate in formal training and on-the-job learning activities.
- Uphold strong planning, reporting, and stakeholder engagement standards.

### •Audit Associate

*January - December*

*KPMG Zambia, Lusaka, Zambia*

2025

- Conduct audits for diverse clients across various sectors.
- Review and verify client documentation for accuracy, validity, and completeness.
- Analyze financial statements to ensure compliance with accounting standards.
- Prepare and maintain accurate audit documentation.
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- Assist in the preparation of audit reports summarizing findings.

- Participate in training sessions for professional development.

### •KYC Assistant

January

Zanaco Head Office, Lusaka, Zambia

2025

- Conducted Know Your Customer (KYC) checks to ensure compliance with regulatory and company standards.
- Reviewed and verified client documentation for accuracy, validity, and completeness.
- Performed both customer due diligence (CDD) and enhanced due diligence (EDD) based on risk assessments.
- Maintained accurate records to support audits and regulatory requirements.
- Collaborated closely with compliance teams to investigate and resolve discrepancies.
- Stay updated on anti-money laundering (AML) policies and industry best practices.
- Communicated effectively with clients and internal teams to address KYC requirements and provide support during audits and inspections.

### •Data Analyst Intern

July - September 2023

Industry Immersion Africa, Ghana

2024

- Developed a machine learning model to predict whether a bank customer would stay or leave.
- Employed the Random Forest Classifier to build the model.
- Achieved an accuracy of 86%, indicating that 86% of the predictions were correct.
- The model achieved a precision of 87% and a recall of 97% in predicting customers who stayed with the bank.
- Interactive Dashboard Developed an interactive dashboard using Streamlit for visualizing customer churn data.

### •Teaching Assistant

Jan - June 2023

The Copperbelt University, Zambia

2023

- Tutored undergraduate students in Mathematics courses such as Mathematical Methods, Statistics, and Business Analysis.
- Assisted in marking scripts and invigilating exams, contributing to the overall academic process.

### •Student Tutor

Feb - September 2022

The Copperbelt University, Zambia

2022

- Led tutorials for first-year students, helping them grasp complex mathematical concepts.
- Provided one-on-one support to students struggling with course material, resulting in improved academic performance.

## TECHNICAL SKILLS

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- **Programming Languages:** Python, R, LaTeX, MATLAB, SPSS, SAS
- **Tools:** Jupyter Notebooks, Git, MS Office, Tableau, SQL, Excel
- **Soft Skills:** Teamwork, Communication, Problem-Solving, Adaptability

## LANGUAGES

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**English:** Fluent (Written and Spoken)

**French:** Intermediate (Written and Spoken)

## REFERENCES

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