

AYANDA BLESSING KHUMALO

Data Scientist | Python, ML Models & Analytics

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📄 PROFESSIONAL SUMMARY

An action-oriented and analytical data science professional with a BSc in Mathematics and Physics, currently pursuing an MSc in Data Science. Possesses a strong ethic and a proven track record of rapid learning agility, demonstrated by securing competitive data scholarships and winning business-strategy hackathons. Equipped with foundational skills in Microsoft Excel, Python, SQL and Power BI.

🎓 EDUCATION

Cooperative Education Master's majoring in Data Science

African Institute for Mathematical Sciences (AIMS Cameroon)

08/2025 – Present | Cameroon

- Project Design, Policy Design, Financial/Business Analysis, Design Thinking, Organisational Behaviour
- Excel Data Analysis, Power BI & Data Analysis, Data Storytelling, Credit Risk Modelling

Bachelor of Science in Mathematics and Physics

University of Eswatini (UNESWA)

08/2020 – 07/2025 | Eswatini

- Relevant Coursework: Mathematics of finance, Mathematical Statistics, Computer Programming.

📁 WORK EXPERIENCE

Brilliant Tutors

Academic Tutor

04/2025 – 08/2025 | Eswatini

- Demonstrated strong communication skills by translating complex physics concepts for high school students.
- Developed customized learning strategies and practice materials, showcasing adaptability and problem-solving to improve individual student performance.

Bokamoso Tech

Data Scientist/ AI Engineer Intern

08/2026 – Present | Remote, South Africa

- Develop and train machine learning models for cost estimation, supplier scoring and ranking, and project forecasting and prediction.
- Clean, preprocess, and structure datasets for machine learning and analytical applications.
- Build and maintain data pipelines and ETL workflows for reliable, reusable data processing.
- Evaluate, test, and improve model performance, accuracy, and decision-support capabilities.
- Research and prototype AI/ML approaches for real-world business applications.
- Collaborate with software engineering teams to integrate machine learning models into production systems, including the **Devulator** platform.
- Translate data and model outputs into actionable insights for technical and non-technical stakeholders.



CORE SKILLS & COMPETENCIES

Data & Reporting Tools

- Microsoft Excel
- Power BI
- SQL
- Python, Pandas, Numpy
- R Programming
- Github

Analytical Skills

- Statistical Analysis
- Data Interpretation
- Predictive Modeling
- Data Mining & Visualization
- Time Series Forecasting

Behavioural Competencies

- Analytical thinking
- Attention to detail
- Problem-solving ability
- Team collaboration
- Good communication skills
- Action-oriented



RELEVANT PROJECTS

Customer Churn & Credit Risk Dashboard

05/2026

End-to-end data science pipeline for a digital bank: ETL on 10,000 synthetic customers + 5,000 support chat logs, NLP sentiment scoring, churn propensity and credit risk modelling (XGBoost ROC-AUC 0.91), and a 3-page interactive Streamlit dashboard with Plotly visualisations.

Team Task Management Board (Agile Project)

Web Application

2025

- Collaborated within a team environment to design a full-stack web application for streamlining workflow visualization.
- Practiced Agile development and version control (Git/GitHub), demonstrating teamwork and structured problem-solving under a strict 4-week deadline.



LEADERSHIP & AWARDS

AIE x DataCamp Scholarship Awardee

AIE / DataCamp

04/2026

- Selected from a competitive pool to receive a 1-year Premium License; currently upskilling and completing certification tracks in Power BI, SQL, and advanced Microsoft Excel to enhance corporate reporting capabilities.

2nd Place Winner (\$2,000 Prize) - AIMS Innovation Week Hackathon

AIMS

03/2026

- Led a team to build a business strategy around an existing technical project ("Holaride"). Defined the value proposition, identified the initial target customer, planned the go-to-market strategy, and successfully pitched the business model to investors and business leaders.



COMMUNITY ENGAGEMENT & VOLUNTEER EXPERIENCE

Vice Secretary

2023 – 2024 | UNESWA

- Organized workshops and seminars focused on diverse career paths for science students.

President

2024 – 2025 | UNESWA

- Led academic initiatives and coordinated seminars exploring professional applications of physics.

IndabaX Eswatini 2026

Volunteer / Organising Team Member

05/2026 – Present | Eswatini

- Contribute to the organisation and development of **IndabaX Eswatini**, a grassroots event focused on building capacity and strengthening the Machine Learning and Artificial Intelligence community.
- Support event planning and coordination, including refining the **event theme**, developing and managing **Google Forms**, and assisting with participant engagement and logistics.
- Contribute to the design and delivery of an **Introduction to Python practical session**, supporting participants in developing foundational programming skills.
- Collaborate with other organisers to help create an inclusive and technically engaging learning environment for participants.



CERTIFICATES

- [Introduction to Power BI](#)
- [Data Visualization in Power BI](#)