

CHISHATO PRINCESS

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EDUCATION

Northeastern University, Boston, MA

Master of Professional Studies in Analytics,

January 2025 – April 2026

Relevant Coursework: Data Mining, Machine Learning, Data Warehousing & SQL, Big Data (Apache Spark), Data Visualization (Tableau), Statistical Analysis, AI & Deep Learning, Predictive Analytics

Women's University in Africa | Harare, Zimbabwe

Bachelor of Science in Community Development Studies

August 2017 – June 2021

Relevant Coursework: Basic Computer Literacy, Quantitative Research Methods, Project Planning and Management

Fellowship | UN Internship Fellowship Program (Second Cohort)

Sept 2019 – Aug 2020

Competitively selected for the UN Internship Fellowship Program, contributing to multidisciplinary initiatives that advanced sustainable development, peace and security and gender equity while conducting research, analysis, and strategic reporting, and engaging in high-level training and networking with international development professionals

CORE TECHNICAL SKILLS

Programming & data: Python, R, SQL, PySpark

Data analysis & statistics: EDA, feature engineering, hypothesis testing, statistical analysis

Machine learning & AI: regression, random forest, XGBoost, clustering, NLP, transfer learning

Big data & cloud: Apache Spark, Databricks

Visualization & BI tools: Tableau, Qlik, Power BI, ggplot2, Excel

Tools & technologies: Jupyter Notebook, Flask (API development), Docker (containerization), Hugging Face (model deployment)

ANALYTICS PROJECTS

SGC Vendor Engagement Analytics Dashboard | Northeastern University (Capstone)

January 2026 – March 2026

Developed interactive dashboards using Tableau and Qlik to centralize vendor and partner data, analyzed supplier diversity metrics, vendor distribution, and service coverage, identified gaps in vendor engagement to support strategic procurement decisions, and integrated multi-source datasets into a unified analytics platform.

NYC Motor Vehicle Collision Analysis & Prediction | Northeastern University

September 2025 – December 2025

Analyzed 1.6M+ crash records with 29 variables to identify key drivers of accident severity, built and evaluated machine learning models (Random Forest, XGBoost, Decision Tree) achieving up to 86% accuracy, improved detection of high-risk incidents by increasing recall from 0.07 to 0.46 through threshold tuning, applied K-Means clustering to identify geographic accident hotspots and risk patterns, and delivered data-driven recommendations to support traffic safety policy and resource allocation.

Instacart Customer Segmentation Analysis (Big Data – PySpark)

May 2025 – June 2025

Processed 33M+ transaction records using PySpark in a distributed computing environment, engineered behavioral features and applied PCA and K-Means clustering to identify three customer segments, generated insights linked to an estimated \$70M revenue opportunity, and built scalable pipelines for large-scale data transformation and analysis.

News Text Classification Microservice (NLP + Deployment)

November 2025 – December 2025

Developed and deployed a Flask-based REST API for real-time text classification, implemented an NLP pipeline using TF-IDF and Logistic Regression, containerized the application using Docker and deployed it on Hugging Face Spaces, and enabled scalable batch and real-time predictions via API endpoints.

Transfer Learning for Image Classification

October 2025 – November 2025

Built an image classification model using ResNet18 transfer learning, achieving over 81% validation accuracy through fine-tuning and regularization, and applied data augmentation and early stopping techniques to improve model generalization.

PROFESSIONAL EXPERIENCE

African Women Leaders Network (AWLN) | Harare, Zimbabwe

Program Support Associate

August 2019 – Dec 2024

Supported planning and execution of regional forums and workshops by coordinating logistics, stakeholder communication, and program reporting to support decision-making and community-focused initiatives.

Porcie Mak Contractors | Harare, Zimbabwe

Administrative & Budget Assistant (Construction Operations)

January 2024 - December 2024

Managed budgeting and cost tracking using Excel to improve financial organization and reporting accuracy, prepared and distributed client quotations ensuring timely communication and pricing consistency, maintained structured records and performed data entry to support operational decision-making, and coordinated administrative workflows to improve daily operational efficiency.

Troops for Sustainable Development | Harare, Zimbabwe

Deputy Project Manager

January 2020 – December 2022

Supported informed strategic decisions by developing and implementing budgeting and cost-tracking tools, evaluating program effectiveness, and coordinating clear, consistent communication among stakeholders

Zimbabwe Gender Commission | Harare, Zimbabwe

Public Education Intern

August 2019 - August 2020

Directed public awareness campaigns and analyzed engagement metrics to assess program outcomes, compiled reports and delivered stakeholder presentations to support policy decisions, coordinated events with executive leadership while managing digital communication platforms, and provided administrative support to ensure efficient daily operations.