TAFADZWA CHIGWADA, DATA SCIENTIST

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EXPERIENCE

Orange Summer Challenge Young Talent   **July 2024 - Present**

Orange Botswana, Gaborone

- Developing an application using Flutter that integrates AWS services and other cloud solutions, to enhance user experience and data management.
- Implementing software solutions using Python and relevant libraries, driving key project components and ensuring seamless integration of hardware and software.

Founder and Content Creator   **July 2024 - Present**

Generation-ALL In Data and Cloud

- Launched a proactive initiative aimed at fostering community engagement and knowledge sharing in data science and cloud computing (AWS).
- Curated and disseminated regular content to followers focusing on discussions, networking opportunities, insights and skill development within the data and cloud computing industry.

Data Analyst Intern and Teaching Assistant   **June 2023 - Aug 2023**

Ed-Tech Africa, Gaborone

- Improved student demographics through optimization of advertisement strategy exploratory data analysis of company data and constant collaboration with the marketing team.
- Managed the back-end administration system, resulting in streamlined student registration processes for their desired technology courses.

Mentor   **Feb 2023 - Mar 2023**

Techy Train Incubator Foundation, Nigeria (Remote)

- Mentored women across Africa in an introductory Artificial Intelligence using Python course, fostering technological skills and understanding of basic coding concepts.
- Facilitated networking opportunities in various technology careers through tech talks and webinars.

EDUCATION & CERTIFICATIONS

B.Pharmacy (Hons)   **Graduation: Oct 2027**

University Of Botswana, Gaborone   **CGPA: 3.19**

Supervised & Unsupervised Machine Learning   **Feb 2024**

DataCamp, Certification

PROJECTS

Pharmaceutical Supply Chain Inventory Optimization| GITHUB

- Tackled overproduction and financial losses by managing product shelf lives and aligning production with market trends.
- Enhanced profitability, competitive edge, and sustainability through efficient inventory management and waste reduction.

Tech stack: Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, mean absolute error (for evaluation metrics)

Agricultural Product Demand Forecasting to Optimize Harvest Schedules| GITHUB

- Addressed GreenSeason Farms' optimization challenge by developing a robust demand forecasting model to enhance harvest scheduling and distribution, reducing food waste, improving profit margins, and gaining a competitive edge.
- Utilized historical data, weather conditions, and market trends to predict product demand accurately, identifying key parameters affecting production demand.

Tech stack: Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, SciPy, Statsmodels, Prophet

Sentiment Analysis For Customer Feedback| GITHUB

- Enhanced Sentiment Classification Accuracy: Improved the precision of sentiment categorization from customer feedback by implementing advanced NLP techniques, resulting in more accurate and meaningful insights for strategic business decisions.
- Conducted Comprehensive Model Performance Comparison: Compared performance metrics such as accuracy, precision, recall, and F1-score of sentiment analysis tools, identifying the most effective model and significantly increasing the reliability of customer sentiment analysis.

Tech Stack: NLTK, VADER, Pandas, Scikit-learn

TECHNICAL SKILLS & EXTRA-CURRICULARS

Languages & Libraries: Python, SQL, CSS, HTML, Seaborn, Numpy, Pandas, Matplotlib, Beautiful Soup, Flutter, Dart

Machine Learning: Supervised, Unsupervised, Regression, KMeans Clustering

Others: GitHub, AWS-Certified Cloud Practitioner, Microsoft SQL Server, Microsoft Power BI, Statistics

Google Women Techmakers Ambassador

UB Google Developer Student Club Community Manager

[Cognizant](#) Artificial Intelligence Job Simulation   June 2024

Cognizant, [Certification](#)

Participated in the open access Cognizant Virtual Internship Program with [Forage](#)

- Conducted exploratory data analysis using Python and Google Colab for one of Cognizant's technology-led clients, Gala Groceries, to understand the data's structure and content, patterns and relationships within the data.
- Trained a Linear Regression model with low Mean Absolute Error for accurate sales predictions while demonstrating proficiency in data-driven insights and model deployment.

Tech Stack: Python, Google Colab, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn.

BCG Data Science Job Simulation on Forage   Sept 2024

BCG, [Certification](#)

Participated in the open access Cognizant Virtual Internship Program with [Forage](#)

- Completed a customer churn analysis simulation for XYZ Analytics, demonstrating advanced data analytics skills, identifying essential client data and outlining a strategic investigation approach.
- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualization techniques for insightful trend interpretation.
- Completed the engineering and optimization of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering actionable insights for informed decision-making based on the analysis.

Tech Stack: Python, Google Colab, Pandas, NumPy, Scikit-learn.

British Airways Data Science Job Simulation on Forage   Sept 2024

British Airways, [Certification](#)

- Completed a simulation focussing on how data science is a critical component of British Airways success
- Scraped and analyzed customer review data to uncover findings
- Built a predictive model to understand factors that influence buying behavior.

Tech Stack: Beautiful Soup, Google Colab, Sci-kit Learn, Pandas