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| **Percival**  Shimange | Address  0717793209  percivalshimange@gmail.com  https:/www.linkedin.com/in/percival-shimange-952722206  https://github.com/pshluvu |

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|  | **Objective** |

As a highly motivated and detail-oriented aspiring data science, I am eager to leverage my skills in data science and engineering to drive data-driven decision-making, optimize operations, and deliver impactful results. With a strong foundation in data modelling, governance, and visualization, model development, I am committed to meeting targets, reducing costs, and enhancing operational efficiency through data-backed insights.

I am passionate about contributing to transformative initiatives, fostering collaborative relationships, and maintaining high-quality standards in all deliverables. With a focus on continuous learning and industry best practices, I aim to support business strategies and align with organizational values while delivering exceptional service to both internal and external stakeholders.

Ability to work as a team member. Coming with Honours in Physics and master’s candidate on eScience / Data Science from University of the Witwatersrand.

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|  | Education |

## Msc Data Science | University of the Witwatersrand

### 2022 – 2025

## Honours Physics | University of Limpopo

### 2021 – 2021

## BSc Physical Science | University of Limpopo

### 2016 – 2020

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|  | Experience |

## Internship | Deloitte

### 1 Febraury 2023 – 15 April 2023

* Sorted and organized files, spreadsheets, and reports
* Conducted extensive research for startup company projects.
* Participated in workshops and presentations related to projects to gain knowledge.
* Collaborated with senior management on new initiatives to build confidence.
* Analyzed problems and worked with teams to develop solutions.

**Learnership | ABSA**

1 April 2024 –

* Build PD models using SAS
* Reporting and Monitoring of the models
* Model development
* Collecting and analysing critical business data, transforming data and maintaining high levels of integrity in data management. Data sharing, sourcing data from third parties for validation purposes and as well as the service delivery of analysed critical data to business.
* Regulatory credit capital model development in a wholesale environment.

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|  | Skills |

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* SQL (Functions, Clauses, Join, Case Statement, Nested Case Statement, Sub Queries, Common Table Expressions)
* Python (Pandas, NumPy, SciPy, Matplotlib, Scikit-learn, Regex)
* Machine Learning (Regression, Classification, Deep Learning, AI)
* Excel (If statements, VLOOKUP, XLOOPUP, Conditional Formatting, Pivot Tables, Pivot Chart, Functions, Index Function, Match Function, Indexmatch Function, SUMIF)
* Microsoft Power BI (Power Query, Conditional Formatting, DAX, Drill Down, Bins and List, Append and Merge)
* Microsoft Office (Word, Power Point)
* Enthusiastic learner with a quick grasp of concepts.
* A willingness to travel and possess my own car with a driver's license.
* Strong interpersonal relationship skills, fostering effective communication within teams.
* High attention to detail, ensuring accuracy in data analysis and reporting.
* Demonstrated numerical aptitude and proficiency in planning and organizing tasks.
* Ability to work both independently and collaboratively, contributing effectively to team goals.
* Adaptable and flexible, embracing change as an opportunity for growth.
* Strong problem-solving skills and the ability to think creatively.
* Enthusiasm for quantitative analysis and problem-solving.
* Willingness to engage in a dynamic and creative work environment.

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|  | Projects |

1. Power BI Dashboard using HR dataset.

KPI requirement: The HR department is responsible for monitoring and managing various aspects of employee data to ensure the organization maintains a healthy workforce. However, there is a lack of clear performance indicators to track and analyze key HR metrics. Therefore, there is a need to design and implement a set of KPI’s to address the following points:

* Employee Count - The HR department lacks visibility in the total number of employees, making it challenging to assess workforce size and plan for future growth or downsizing effectively.
* Attrition Count - The organization lacks a standardized method to track employee attrition, resulting in incomplete and unreliable data on the number of employees who have left the organization.
* Attrition Rate – Without a clear measure of attrition rate, the organization cannot assess the overall turnover level or compare it with industry benchmarks, hindering the ability to gauge employee satisfaction and engagement.
* Active Employees – the organization lacks a mechanism to differentiate between active and inactive employees, leading to difficulties in accurately assessing the current workforce’s productivity and capacity.
* Average Age – The HR department lacks visibility into the average age of employees, making it difficult to evaluate workforce demographics, succession planning, and the organization’s ability to attract and retain younger talent.

1. **BCG Data Science Job Simulation on Forage - February 2025**

* 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.

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|  | Certification |

* AWS Cloud Practitioner essentials 17/08/2022
* Advanced Microsoft Power BI 10/01/2023
* Data Engineering with AWS Part 1 10/01/2023
* Github for Data Scientists 02/01/2023
* Hands -On Data Science: 1 Analyzing Employee Data with SQL 02/01/2023.
* Using Python with Excel 02/01/2023
* Google Analytics for Beginners 29/12/2022
* Supervised Machine Learning: Regression and Classification 04/01/2023