

VISHMA AMBELAL-RAMA

GRADUATE: COMPUTER SCIENCE

CONTACT DETAILS:

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Online Portfolio: <https://codingvishma.github.io/PersonalWebsite/>

PROFILE

I am a passionate and forward-thinking graduate in Engineering Technology (Computer Engineering), specializing in data analysis, relational database management systems, machine learning, and statistical modelling. I have a strong foundation in Python, SQL, Java and data manipulation techniques and an in-depth understanding of the Systems Development Life Cycle (SDLC). I am eager to apply my technical skills and innovative thinking in the field of Business Intelligence, leveraging data to drive decision-making. With a proven ability to solve complex problems and a commitment to continuous learning through certifications and self-directed projects, I am now seeking to contribute to this company's data-driven solutions as part of your team.

EDUCATION

1. Cape Peninsula University of Technology

National Diploma in Engineering Technology in Computer Engineering (**Completion Year: 2024**)

Relevant Courses: *Software Development 1 & 2, Software Analysis 2, Mathematics 1 & 2, Computer Engineering Skills 1, Digital Communications 2, Physics 1 & 2, Microprocessors.*

Current Average of Marks: 67% ([June Transcript Available upon Request](#)).

PROJECTS

Through self-learning I developed an online portfolio to showcase my other projects: ([View](#))

KEY PROJECTS

- Data Analysis Projects (Python):
 - Business Intelligence Dashboard:** Cleaned sales data, visualizing total sales by region, and using interactive filters to analyse sales performance. The goal is to identify trends and make data-driven decisions based on the insights gained from the analysis, and use Power BI to visualize data.
 - Demographic Data Analyzer:** Conducted data manipulation and statistical analysis of large datasets, identifying trends and insights that informed decision-making processes.
 - Mean-Variance Standard Deviation Calculator:** Developed Python scripts to calculate key statistical measures, improving data accuracy and insights.
- Data Analysis Projects (SQL):
 - SQL Data Analysis:** This project analyses a business dataset using SQL to uncover insights on customer behaviour, product sales, and regional performance, aiming to generate actionable insights for informed decision-making.
- Web-Based Tools
 - Budget App:** Developed a Python budgeting app to track expenses and generate reports, focusing on creating a user-friendly interface for effective financial management.
- Others can be viewed on my portfolio webpage [here](#).

PERSONAL SKILLS

- Analytical thinking and problem-solving
- Adaptability and quick learning
- Collaboration and teamwork
- Strong communication and leadership potential
- Independence and time management

TECHNICAL SKILLS

Through the course of my studies at CPUT and other self-learning platforms, I have acquired the following:

- Programming Languages:** Python, SQL, Java, C
- Data Analysis & Machine Learning:** Python Libraries (Pandas, Numpy, Matplotlib, Scikit-learn), SQL, Excel.
- Data Visualization:** Power BI, Tableau
- Database Management:** Relational databases, SQL, DBMS principles, data modelling
- Business Intelligence:** Data-driven insights, BI tool familiarity
- Statistical Analysis:** Descriptive statistics, regression analysis, probability
- Cloud Computing:** Basic knowledge of AWS infrastructure
- Web Development:** HTML5, CSS3, JavaScript
- Software Development Methodologies:** Agile, Waterfall

CERTIFICATIONS (SELF-STUDY)

FreeCodeCamp

- [Scientific Programming with Python](#)
- [Front End Development Libraries](#)
- [JavaScript Algorithms and Data Structures](#)
- [Responsive Web Design](#)