

TRISHAD PHOGOLE

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Linkedin: Linkedin | **Portfolio:** Portfolio | **Github:** Github

Professional Summary

Curious and detail-oriented Data Scientist with hands-on practical experience in data analytics, machine learning, artificial intelligence, and business intelligence. I have a proven track record in developing predictive models, automating data workflows, and creating interactive dashboards for both technical and non-technical stakeholders. Skilled in extracting actionable insights from complex datasets and delivering scalable, end-to-end data science solutions. Passionate about leveraging advanced technologies to optimise operations, and drive innovation. Recognised for improving operational efficiency and enabling performance growth through data-driven recommendations. Committed to continuous learning and staying up to date with the latest industry trends and emerging technologies.

Work Experience

Data Scientist, Mintek March 2025 - Present

- Participate in developing, testing, and deploying machine learning models to optimise organisational operations and enhance decision-making, including fine-tuning algorithms for improved performance.
- Design and maintain organisational Key Performance Indicators (KPIs) dashboards, including research outputs, HR metrics, divisional performance, and other key areas to support real-time tracking and performance monitoring, reducing manual reporting time by 40%.
- Execute ETL processes to mine, clean, and integrate data from diverse sources (SharePoint, IFS, databases, Excel), improving data consistency by 95%.
- Leverage SQL to extract, transform, and analyse datasets with thousands of records, optimising query performance, reducing processing time, and ensuring 99% data accuracy in reports.
- Translate complex data into impactful business insights, contributing to a 15% improvement in operational efficiency and enhanced strategic planning outcomes.
- Collaborate with cross-functional teams to deliver data-driven recommendations, resulting in a 20% increase in overall operational performance.

Technologies & Technical Skills

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| • Python (Data analysis & Visualisation) | • Microsoft Power BI |
| • SQL (MySQL, SSMS, PostgreSQL, T-SQL) | • Model development, training & deployment |
| • Data Mining & Management | • Predictive Modeling & Time Series Analysis |
| • Artificial Intelligence (NLP, LLMs, Transformers) | • Big Data Engineering (Hadoop, Spark) |
| • Machine Learning (Classification, Regression, Clustering, Deep learning) | • NoSQL (MongoDB, Cassandra) |
| • Experimental Design (A/B Testing, Hypothesis Testing) | • ETL & Data pipelines (Shell, Airflow & Kafka) |
| • Cloud Services (AWS, Azure) | • SAS (Statistical Analysis) |
| | • Version Control (Git, Github) |

Education

Bachelor of Science Honours in Computer Science, University of Limpopo	Feb 2024 - 2024
Bachelor of Science in Mathematical Sciences, University of Limpopo	Feb 2020 - 2023
Matric, Kgagatlou Secondary School	Jan 2015 - 2019

Certificates

- Data Analyst Professional Certificate; Data Science Professional Certificate; Data Engineering Professional Certificate; AWS Cloud Practitioner Essentials : **IBM**
- IFRS 9 Expected Credit Loss Model Development & Validation; Credit Risk Modelling & Credit Scoring Using Machine Learning; Basel Accords - Capital Adequacy, Credit, Market, Liquidity, and Operational Risk Management: **Udemy**
- SAS Programming 1 Essentials: **SAS**

References

Available upon request.