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.
- Perform A/B testing on machine learning models to compare algorithm performance and feature variations, achieving up to 20% improvement in model selection.
- Design and maintain organisational Key Performance Indicators (KPIs) dashboards to support real-time tracking and performance monitoring, reducing manual reporting time by 40%.
- Execute ETL processes to mine, clean, and integrate data from multiple sources such as SharePoint, databases, and Excel into dashboards for streamlined reporting and analysis.
- 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

- Python (Pandas, Numpy, Scikit-learn, Tensorflow, PyTorch)
- SQL (MySQL, SSMS, PostgreSQL, T-SQL)
- Data Mining & Management
- Artificial Intelligence (NLP, LLMs, Transformers)
- Machine Learning (Classification, Regression, Clustering, Deep learning)
- Statistical Analysis (Hypothesis Testing, A/B Testing)
- Cloud Services (AWS, Azure)

- Microsoft Power BI
- Model development, training & deployment
- Predictive Modeling & Time Series Analysis
- Big Data Engineering (Hadoop, Spark)
- NoSQL (MongoDB, Cassandra)
- ETL & Data pipelines (Shell,Airflow & Kafka)
- 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 Practioner 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.