

Tsidiso Hlophe

PROFESSIONAL SUMMARY

With a strong foundation in machine learning, big data analytics, and software development, I have cultivated extensive experience in the tech industry, contributing to a range of innovative projects. My skills span across the application of advanced algorithms for fraud detection, the development of adaptive systems, and the creation of user-centered web solutions. I have consistently delivered cutting-edge solutions, combining technical expertise with real-world problem-solving, and my work has been recognized at industry challenges and academic projects alike.

Phone:	GitHub Link:	Email:	LinkedIn :	Postal Address:
+268 76305315 +268 79305315	https://github.com/TshidisoKingk	hlophetsidiso@gmail.com	www.linkedin.com/in/tsidiso-hlophe-11a06a297	P.O BOX 552 Siteki Eswatini

EDUCATION

Bachelor of Science in Information Technology | 2019-2025

University Of Eswatini

- Relevant Coursework:** Data Mining(ML & DL), Cybersecurity I & II, Digital Forensics, Integrative Programming, System Administration & Maintenance, System Analysis & Design, IT Laws & Ethics, Object-Oriented Programming, Database Design I & II, Graphics, IT Auditing, e-Commerce, Computer Networks I & II, Project Management, Probability & Statistics, Accounting I & II, Data structures & Algorithms, Modern Operating Systems, Discrete Mathematics & Calculus, IT Research & Methods, Entrepreneurship & Innovation, Computer Programming I & II, Management of Management Information Systems I & II, Web Technology & Development, & Computer Architecture & Organization .
- Final Year Project:** Transactional Fraud Detection System using Machine Learning (Awarded B Symbol)
- Grade:** Second Class, Lower Division

PROJECTS

1. Hybrid Telecom Fraud Detection System (SATNAC Competition Winner)

- Designed an AI-driven system combining pre-paid and post-paid fraud detection using big data analytics to detect fraud in real-time in the telecom industry.
- Tools: Python, Apache Spark, Machine Learning algorithms.

2. Telecom Churn Prediction

- This project delves into predicting customer churn in the telecommunications sector using various machine learning models, an essential task for businesses aiming to retain their customers and reduce turnover.
- Tools: Python, Apache Spark, Machine Learning algorithms.

3. Malware Detection system using Machine Learning Algorithms

- Developed a machine learning classifier to identify malicious software with 90% accuracy.
- Tools: Python, Apache Spark, Machine Learning algorithms.

4. Online Graduation System

- In this Project I worked with a team in developing a website which will be used by the lectures to determine which students are eligible for graduation and will be used to determine the grade and if the student has been cleared at the student finance. Tools: PHP, Javascript, CSS & HTML

5. Transactional Fraud Detection Model using Machine Learning Algorithms

- In this Project, I developed a transactional fraud detection model, which used real-time transactional data from one of Eswatini Biggest Financial Organization. This model was able to detect fraudulent transaction with an accuracy of 92%.
- Tools: Python, Apache Spark, Machine Learning algorithms.

LICENSES & CERTIFICATIONS

- Microsoft Azure Responsible AI Workshop - Completion - Issued by Microsoft Azure on March 2024.
- Cybersecurity Awareness : Cybersecurity Terminologies - Issued by LinkedIn on March 2025.
- Introduction To Data Science - Issued by Cisco on March 2025.

NOTABLE AWARDS

- Winner, SATNAC Competition (AMDOCS Topic 2) | 2024** - It is a ICT competition and conference held in South Africa that invites student in different universities across Southern Africa to participate in developing industry solutions faced by Major companies around the world. I had the privilege to win first place and representing the Kingdom of Eswatini and The University of Eswatini in this competition.

WORK EXPERIENCE

- IT Intern | **University of Eswatini** | Eswatini (2023)
- Sales Advisor | **Lewis Group** | Eswatini (2024–2025)
- Ai & Frontend & Backend Developer | **Centurion Technologies** | Eswatini (2025)

TECHNICAL SKILLS

- Programming Languages:** Python, React js, HTML/CSS, PHP & JavaScript
- Soft Skills:** Technical Communication, Team Collaboration, Project Management.

REFERENCES

Jahid Islam (Lecture)
+268-76861631

Samkelo Msibi
+268-79574576

Lindiwe Zwane (BHE Manager)
+268-76369976