

MPHO MATSEKA

Software Developer | AI/ML Engineer

Building intelligent solutions through code and data

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Professional Summary

Final-year Software Development student with proven expertise in AI/ML implementation and full-stack development. Successfully deployed fraud detection systems processing 250K+ records with 80.6% recall. Competed in multiple prestigious hackathons including FNB App of the Year. Certified in Oracle Cloud AI, Azure AI, and Full-Stack Development. Passionate about leveraging AI to solve real-world problems through scalable, data-driven applications.

Technical Skills

Languages & Frameworks: Python, Java, JavaScript, React, Flask, Spring Boot

AI/ML & Data: Scikit-learn, NLP, Data Analytics, Model Deployment, Feature Engineering

Frontend Technologies: HTML5, CSS3, Tailwind CSS, Material UI, Responsive Design

Backend & Databases: SQL, PostgreSQL, RESTful APIs, Database Design

Cloud & DevOps: Oracle Cloud Infrastructure, Microsoft Azure, Docker, Git/GitHub

Methodologies: Agile/Scrum, Problem-solving, Debugging, Code Review

Projects

Credit Card Fraud Detection System

Python • Scikit-learn • Flask • Data Visualization

- Developed ML model achieving 80.6% recall rate for fraud detection
- Successfully processed and analyzed 250,000+ transaction records
- Implemented real-time anomaly detection with Flask REST API
- Created interactive dashboards for fraud pattern visualization

Pitch Perfect AI

JavaScript • Google Gemini API • Web Audio API • Real-time Processing

- Built AI-powered public speaking coach with real-time speech analysis
- Integrated Google Gemini for intelligent feedback and improvement suggestions
- Designed intuitive UI for speech recording and instant performance metrics
- Implemented features for tone, pace, and clarity assessment

Student Records Management System

Java • AWT • Data Structures • Object-Oriented Design

- Developed comprehensive GUI application for student data management
- Implemented efficient data structures (ArrayLists) for record handling
- Created CRUD operations with data validation and error handling
- Designed intuitive interface following OOP principles

Education

Diploma in Information Technology - Software Development

Vaal University of Technology, South Africa, Final Year - Expected Graduation 2025

- Specialized in Software Development & AI/ML
- Completed multiple industry certifications alongside degree

Certifications

- Oracle Cloud Infrastructure 2025 AI Foundations Associate — Oracle
- Microsoft Azure AI Fundamentals (AI-900) — Microsoft
- Full Stack Development Certificate — IT Varsity
- IBM Data Fundamentals — IBM
- CCNA v7: Introduction to Networks — Cisco
- Introduction to Cybersecurity — Cisco

Achievements

- Competed in FNB App of the Year Hackathon - National competition
- Participated in Intervarsity Hackathon - Multi-university competition
- Competed in VUT First Annual Internal Hackathon
- Earned 6 professional certifications in AI, Cloud, and Development
- Built 3 production-ready applications showcasing full-stack and AI capabilities