

Peter Tinashe Mundowa

Data Scientist & AI Engineer | Machine Learning | Enterprise AI Systems | Full-Stack Data Applications

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PROFESSIONAL SUMMARY

Data Scientist and AI Engineer building production-grade AI systems, ML pipelines, and full-stack data applications for real enterprise environments. Designs AI agents on complex, undocumented enterprise databases — translating raw operational data into intelligent systems that stakeholders actually use. Active Zindi competitor and Ambassador for Zimbabwe; BSc Data Science & Informatics candidate graduating August 2026.

WORK EXPERIENCE

Data Scientist / AI Engineer Jan 2026 – Present
AI Creative Solutions Harare, Zimbabwe

- **Enterprise AI Agent System:** Built production AI agents on a large, completely undocumented enterprise ERP database — developed a full schema and relationship map through evidence-based pattern validation, achieving **95.56% join accuracy** across 225,000+ live transactions. Agents deliver real-time production intelligence, inventory traceability, and operational analytics on live enterprise data.
- **Sales Intelligence AI Agent:** Deployed an AI analytics agent automating sales reporting, customer segmentation, and route performance analysis on live operational data — reducing insight turnaround from **days to under 5 minutes**.
- **Full-Stack Production Application:** Built a complete operations tracking system from scratch — React 19, Express 5, PostgreSQL, Drizzle ORM, role-based access control, real-time stock management. Live in production for a business client in Zimbabwe.
- **Data Engineering & LLM Orchestration:** Designed end-to-end ETL pipelines cutting data preparation time by **~50%**; applied prompt engineering and agent evaluation to improve LLM accuracy by **~30%**; reduced manual reporting effort by **~60%**.

Revenue Assurance Intern Aug 2024 – Aug 2025
Steward Bank Harare, Zimbabwe

- **Exchange Rate Automation:** Built a Python pipeline fetching RBZ exchange rate PDFs daily, extracting and loading data into SQL Server — reducing manual capture from **4 hours to ~15 minutes**. Built Power BI dashboards with DAX for executive reporting.
- Performed SQL-based revenue reconciliations; built automation tools for audit, compliance, and risk workflows.

Machine Learning & AI Intern Dec 2023 – Feb 2024
Mentorless Pvt Ltd Remote

- Developed predictive ML models (salary estimation, fraud detection) using Python, Scikit-learn, and TensorFlow; delivered deployable prototypes aligned to business requirements.

COMMUNITY & LEADERSHIP

Zindi Ambassador — Zimbabwe 2024 – Present
Organises data science events, coordinates ML competitions, and mentors practitioners across Zimbabwe. Hosted **”Building a Successful Career in Data & AI”** — 100+ attendees, 90-minute session extended by live Q&A engagement.

Author 2024 – Present
Right for Education (R:Ed) Zimbabwe — Published author on African technology, entrepreneurship, and leadership. Former Chapter President (2024–2025); recipient of R:Ed **Leadership Beacon Award** and **Certificate of Excellence in Leadership Support**.

SELECTED PROJECTS

Tomato Leaf Disease Detection — BSc Dissertation 2024–2025

- CNN classifier (EfficientNetB0 transfer learning, PlantVillage dataset) deployed as a **live Streamlit web application** for real-time field disease detection across Zimbabwe.

Maize Leaf Disease Detection — IndabaX Zimbabwe 2025 & Zindi 2025

- CNN classifier (EfficientNetB0) across 4 disease classes. **Selected and presented at IndabaX Zimbabwe 2025; 8th place** on the Zindi platform.

Road Traffic Monitoring System2024

- Real-time multi-class vehicle detection and tracking using YOLOv8 + SORT with a virtual counting line; exportable analytics designed for live traffic management deployment.

East Africa Financial Health Prediction — Zindi2025

- Multi-class ML model (LightGBM) predicting financial health outcomes across East African populations; achieved **MAE 0.1199** on class-imbalanced data.

COMPETITIONS & RECOGNITION

3rd Place	ITU AI/ML Global Challenge — Environmental Footprint	International
3rd Place	IndabaX Zimbabwe Face Spoofing Detection Hackathon	Zimbabwe
8th Place	Maize Disease Detection Challenge	Zindi Platform
Speaker	IndabaX Zimbabwe 2025 — Demo/Startup Session	Zimbabwe

EDUCATION

University of Zimbabwe	BSc Data Science and Informatics	Aug 2022 – Aug 2026
WorldQuant University	Applied AI Lab + Applied Data Science Lab	2023 – 2025
Aspire Institute	Aspire Leaders Program (Global competitive cohort)	Jan – Mar 2025

CERTIFICATIONS

• Microsoft Azure AI Engineer Associate	2025	• DataCamp SQL Associate	2024
• Microsoft Azure Data Scientist Associate	2025	• DataCamp Data Scientist Associate	2024
• Microsoft Power BI Data Analyst Associate	2025	• McKinsey Forward Program	Dec 2024
• DataCamp Data Engineer Associate	2024	• YALI Fundamentals of Responsible Leadership	2024
• DataCamp Data Analyst Associate	2024	• University of St. Gallen — Entrepreneurship	2024

TECHNICAL SKILLS

• Languages: Python, SQL, JavaScript, Java	• Databases: SQL Server, PostgreSQL, MySQL
• ML & DL: Scikit-learn, TensorFlow, Keras, EfficientNet, LightGBM, XGBoost	• BI & Analytics: Power BI, DAX, Power Query
• Computer Vision: YOLOv8, OpenCV, SORT, Transfer Learning	• Full-Stack: React 19, Express.js, Node.js, Drizzle ORM, Streamlit
• LLMs & Agents: MindStudio, Prompt Engineering, Agent Orchestration, RAG	• Cloud & Platforms: Microsoft Azure, GitHub
• Data Engineering: ETL Pipelines, SQL Server, Python Automation	• ERP Systems: Enterprise ERP (SQL Server), Openbravo