Kennedy Maturure

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EDUCATION

Drexel University — Philadelphia PA
Master of Science in Computer Science — Expected Graduation: June 2026
Major: Artificial Intelligence and Machine Learning — GPA: 3.73

National University of Science and Technology — Bulawayo, Zimbabwe
Bachelor of Science in Computer Science — GPA: 3.7

PROFESSIONAL EXPERIENCE

Mealie Brand Zimbabwe — Bulawayo, Zimbabwe
Information Technology Intern. — Jan 2021 – Nov 2022

- Optimized MySQL and SQL Server queries, reducing data retrieval time by 35% for faster business reporting.
- Automated ETL workflows with Python and Apache Airflow, saving 10 hours weekly in data processing.
- Managed Sage ERP updates with <5% downtime, ensuring operational continuity across departments.
- Resolved IT tickets with a 95% success rate using ITSM tools and remote desktop support.
- Improved data accuracy by implementing cross-platform validation checks, reducing inconsistencies by 25%.

PROJECTS

AI Personal Fitness Tool (Full Stack LLM-powered) — Winter 2025

- Developed a full-stack AI fitness app with a Streamlit frontend and FastAPI backend, enabling user authentication, personalized macro coaching, and interactive progress dashboards.
- Prompt-engineered multi-agent ChatGPT-4o RAG pipelines via Langflow workflows API, delivering context-aware nutrition and workout recommendations to enhance user goal tracking.
- Deployed REST APIs on AWS EC2 using Docker containers, configured GitHub Actions CI/CD for automated testing and zero-touch releases, ensuring scalable, reliable production deployment.

Predicting Diabetes from Health Indicators
Machine Learning Academic Project — Fall 2024

- Created an ML pipeline using CDC Diabetes Health Indicators data (100k train, 25k validation) to classify diabetes risk profiles.
- Applied PCA for dimensionality reduction and trained Logistic Regression and SVM models, achieving 90% accuracy.
- Analyzed feature importance to identify lifestyle factors for preventative healthcare strategies.

AI Driver's License Verification — National University of Science and Technology
Full stack (backend & frontend) — Fall 2022

- Designed a full-stack AI system for local police, using computer vision for license and identity recognition, reducing reliance on physical IDs.
- Built and trained high-accuracy face and plate detection models with OpenCV and TensorFlow, integrating with a database using MySQL for real-time validation and mobile/desktop feedback.
- Secured data with AES-256 encryption, ensuring privacy during transmission. Conducted field tests to confirm reliability under varied conditions.

TECHNICAL SKILLS

Programming: Python, C++, Java, C
Machine Learning & AI: TensorFlow, Pytorch, Scikit-learn, OpenCV, Langchain, Langflow, Prompt Engineering
Data Science & Analytics: NumPy, Pandas, Matplotlib, Hadoop, PCA, SVM, Logistic Regression, Spark
Cloud & Databases: AWS, Astra DB, MySQL, SQL Server, GitHub Actions
Frameworks & Tools: Streamlit, Apache Airflow, Git, Agile development, CI/CD, Docker, FastAPI, REST API

RELEVANT COURSEWORK

Artificial Intelligence, Machine Learning, Computer Vision, Data Science at Scale, Data Structures and Algorithms, Applications Machine Learning, Reinforcement Learning, Information System Security, Software Engineering.

AWARDS

- **College of Computing and Information Merit Scholarship** Drexel University — Fall 2024

ORGANIZATIONS

- Drexel AI, IEEE Computer Society — 2024 – Present