

DICKSON TINASHE KACHEPA

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EDUCATION

Yeshiva University (YU), Katz School of Science and Health,

New York, NY

Master of Science in Artificial Intelligence | GPA **3.83**

May 2026

Relevant Coursework: Machine Learning, Deep Learning & Neural Networks, Reinforcement Learning, Natural Language Processing (NLP), Cloud Computing, Computational Statistics

Cyprus International University,

Nicosia, Cyprus

Bachelor of Science in Electrical and Electronics Engineering | GPA **3.90**

June 2019

Class Valedictorian

ACADEMIC PROJECTS

AI and Geometry based dose prediction for Radiotherapy

Spring 2026

- Enhanced a 3D radiotherapy dose prediction framework in PyTorch by developing region-sensitive and DVH-aware loss functions, reducing Mean Absolute Error (MAE) by 1.26% to 2.900
- Used Weights & Biases to track training and validation metrics, compare experiments, and monitor model convergence across architecture and loss-function variants.

Automatic Image Captioning

Fall 2025

- Implemented a CNN-LSTM automatic image captioning architecture with Bahdanau attention in PyTorch, achieving a BLEU-4 score of 0.2255

Agent-Based Task Fulfillment Chatbot

Spring 2025

- Developed an agent-based chatbot in Python using Gemini tool calling with rule-based fallback to orchestrate deterministic Python tools for reliable multi-step workflows
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PROFESSIONAL EXPERIENCE

AI Developer

MatchingDonors, US

08/2026

- Developing an LLM-assisted transplant outreach platform using RAG, structured outputs, API integration and human-in-the-loop workflows.

Electrical Engineer

Events Evolution, Harare, Zimbabwe

2019 - 2024

- Designed and managed power systems for live events to ensure uninterrupted power supply
- Performed real-time troubleshooting to maintain above 95% uptime.
- Collaborated across teams to deliver 25+ events/year with zero major safety incidents.

Electrical Engineering Intern

Unki Mine, Shurugwi, Zimbabwe

Summer 2016

- Contributed to electric motor, VSD, and SCADA system operations while adhering to safety, health, and environmental regulations to maintain maximum uptime.
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TECHNICAL SKILLS

Programming Languages: Python, SQL, R (Intermediate)

Frameworks & Libraries: PyTorch, Scikit-Learn, Matplotlib, Pandas, Git, Docker

Certifications: AWS Cloud Practitioner, Hugging Face AI Agents Fundamentals

ACTIVITIES

- CodePath Foundations of AI Engineering and Applied AI Engineering fellow
- Active member of the NYRR (New York Road Runners)
- YU Graduate Assistant: Office of Disability Services | Athletics Department
- Drone pilot with RPAS training in multirotor and VTOL systems