Temitope Adeniyi

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Education Cleveland State University, Ohio, USA PhD Computer Science, 2023-2027
University of Ibadan, Nigeria, MSc. Solid State Physics 2019
Osun State University, BSc. Physics with Electronics, October 2015

Skills

Coding: Python, Qiskit, Cirq, Pennylane, Paddle, Strawberry Fields, TensorFlow Quantum; Working knowledge of R, C++, QuTip
Technical: Machine Learning, Deep Learning, Quantum Computing, Quantum Machine Learning, Natural Language Processing, Reinforcement Learning, Data Science
Other: Product Management, Research Presentation, Technical Writing, Mentoring, Training

Experience

Research Assistant, Quantum and Artificial Intelligence, Cleveland State University *01/2023 – Present*

- Developed adaptive neural network for quantum error mitigation
- Designed reinforcement learning agent for optimizing quantum sensors circuit design
- Published research on adversarial autoencoders for quantum gyroscopes
- Currently working on Graph Neural Networks autoencoders for quantum circuits reduction.

Teaching Assistant, Quantum Machine Learning – CIS 492/593, Cleveland State University
01/2024 – 05/2024, 01/2025 – Present

- Delivered lectures and labs on quantum machine learning principles.
- Mentored students on research projects and evaluated coursework.

Instructor, Quantum Computing and AI, Cleveland Metropolitan School District *06/2024*

- Designed and taught workshops on quantum computing and AI for high school students.
- Mentored student projects, fostering STEM engagement.

Instructor, Quantum Computing Faculty Workshops, The Coding School *06/2023*

- Led workshops for educators on quantum computing applications in STEM and medicine.

Chief Innovation Officer, AI Product Manager Tech Bridge City *08/2022 – 01/2023*

- Led the development of PortHarcourt's first fresh produce app.
- Oversaw prototyping and testing of innovative solutions.

Junior Machine Learning Engineer, Start Tech Academy, India *05/2022 – 08/2022*

- Developed deep learning models for detecting osteoarthritis (97% accuracy).
- Implemented ML algorithms for cassava leaf disease classification (94% accuracy).

Research Assistant, Federal University of Technology Akure *01/2020 – 12/2021*

- Programmed thermodynamic property models for alloys.
- Designed ML models for predicting titanium-based alloy properties.

Co-Mentor QIntern 2023, QWorld

- Mentored team Q_3 of 20 Interns on designing a Quantum Generative Adversarial Network for Medical Imaging Dataset. Selected as the 2nd best project and presentation among 18 projects.
- Mentored team Q_11 of 15 Interns on designing New Quantum Photonic Sensor for Biological Applications. Selected as 3rd best project and 2nd best presentation among 18 projects.

Honors and Awards

- **National Science Foundation Travel Grant (2024)**
- **Femtum Leaps Award (2024)** – Quantum Rising Star for emerging women in quantum tech
- **Petroleum Technology Development Fund (2023)** – Doctoral Study Scholarship
- **Next African Product Manager (2022)** – Scholarship for Product Management Training
- **SheVentures Grant (2022)** – 1st Runner-up, Women in Tech Pitch Competition
- **Founders Live, Lagos (2020)** – First Place, Startup Pitch Competition
- **Tech Expo Africa Grant (2019)** – First Place, Business Idea Pitch Competition
- **AWIT (2018)** – First Place, Startup Pitch Competition

Leadership and Other Experience

Reviewer for Journal of Engineering, IET & Wiley
Conveners and Coordination Team, African Quantum Consortium
Co-Organizer, IBM Qiskit Fall Fest, Cleveland State University
Organizing Team, 2024 NASA Space Apps Challenge
Judge BEST Medicine Engineering Fair, Cleveland State University April 2024
Judge and Advisor, 2SV 2024 AI for Impact Hackathon, July 2024.
Vice President Quantum Computing Club, Cleveland State University
Founder, STEM Zone Nigeria
Cofounder/ ML PM, Deem Technology ltd (2022)
Regional Ambassador, Women in Data Science

Hobbies

Reading, Drawing and Teaching

Publications

Adaptive neural Network for Quantum Error Mitigation, Published 2025, Quantum Machine Intelligence Journal. Authors: **Temitope Adeniyi,** Sathish Kumar

Reinforcement Learning Actor Critic and Policy Gradient for Optimised Quantum Sensor Circuits, Published 2024, IEEE Quantum Computing and Engineering Conference 2024. Authors: **Temitope Adeniyi,** Sathish Kumar

Adversarial Autoencoder for Denoising and Signal Recovery in Quantum Gyroscopes. Published August 2023, IEEE Cognitive Communication for Aerospace Application Workshop. Authors: **Temitope Adeniyi,** Sathish Kumar

Design of Quantum Machine Learning Course for a Computer Science Program, Published September 2023, 2nd IEEE Quantum Science and Engineering Education Conference, Authors: Sathish Kumar, **Temitope Adeniyi,** Ahmad Alomari, Santanu Ganguly