Michael Ajao-Olarinoye, MSc, AFHEA

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PERSONAL PROFILE

I am a dedicated Data Scientist and Machine Learning expert with over five years of experience in both academia and industry. Currently pursuing a PhD in Computational Science and Mathematical Modelling at Coventry University, I specialize in optimizing resource allocation during pandemics. My experience as a Graduate Teaching Assistant has honed my skills in teaching and mentoring students in Machine Learning, Big Data, and AI, driving student engagement and success. I am passionate about delivering high-quality education and fostering innovative research in data science, while also applying my expertise to solve real-world problems in industry settings.

EDUCATION

- **Coventry University** *May 2021 - Present*
  Doctor of Philosophy (PhD) in Computational Science and Mathematical Modelling Coventry, United Kingdom
  ◦ Thesis: Effective Algorithms for Infectious Disease Resource Allocation Applied to the COVID-19 Pandemic

- **Coventry University** *January 2020 - January 2021*
  Master of Science (MSc) in Data Science and Computational Intelligence Coventry, United Kingdom
  ◦ Dissertation: Plant Disease Detection: A Cross-Platform Mobile Application Using Artificial Neural Networks
  ◦ Graduated with Distinction

- **Kwara State University (KWASU)** *September 2011 - July 2016*
  Bachelor of Engineering (BEng) in Electrical and Electronics Engineering Malete, Nigeria
  ◦ Project: Designed and Built a 2km Low-Power FM Transmitter
  ◦ Second Class Honours

WORK EXPERIENCE

- **Coventry University** *April 2021 - Present*
  Graduate Teaching Assistant Coventry, United Kingdom
  ◦ Provided academic support and mentorship to over 100 undergraduate and postgraduate students in modules such as Information retrieval, Machine Learning, Big Data, and Artificial Intelligence, resulting in a 20% increase in student engagement.
  ◦ Developed and delivered tutorial sessions, workshops, and individual student support for computational intelligence, data science, and research methods.
  ◦ Mark and grade assessments, and provide constructive feedback to students.
  ◦ Collaborated with faculty members to design and update curriculum materials to reflect current developments in AI and machine learning.
  ◦ Continuously seek feedback from peers and students on my teaching to improve my teaching practice and ensure an excellent learning experience.
  ◦ Actively participated in internal conferences and academic workshops, fostering an interdisciplinary learning environment and contributing to department-wide initiatives.

- **Research Centre for Computational Science & Mathematical Modelling (CSMM)** *May 2021 - Present*
  Postgraduate Researcher Coventry, United Kingdom
  ◦ Conducted in-depth research on predictive and prescriptive modelling, specialising in resource allocation optimisation during pandemics.
  ◦ Authored peer-reviewed publications and presented research at prestigious conferences, including ICMLA, significantly contributing to institutional research output.
  ◦ Played a key role in developing the internal Conference on Computational Science and Mathematical Modelling (CSMM).
  ◦ Mentored postgraduate students and collaborated with interdisciplinary teams on AI-driven and healthcare projects.
  ◦ Served as a Program Committee Member for the 23rd IEEE International Conference on Machine Learning and Applications (ICMLA), contributing to paper reviews and conference planning.
  ◦ Actively participated in internal conferences and academic workshops, fostering an interdisciplinary research environment and contributing to department-wide initiatives.
  ◦ Continuously seek feedback from peers and professors on my research to improve my research practice and ensure high-quality research output.

- **Tammy Tech** *March 2020 - April 2021*
  Software Developer Lagos, Nigeria
  - Designed and developed web and mobile applications using technologies such as HTML, CSS, JavaScript, and Flutter, enhancing client product offerings by 30%.
  - Collaborated with clients to translate their needs into robust technical solutions, applying agile methodologies to deliver projects on time.
  - Integrated various APIs and built databases to support mobile app functionality, improving user experience and engagement.
  - Kept abreast of the latest programming trends and practices through continuous professional development, applying them to project work.

- **Verificar Compliance** *September 2018 - January 2020*
  Business Systems Analyst Lagos, Nigeria
  - Conducted business analysis and developed IT solutions to streamline company processes, resulting in a 15% improvement in operational efficiency.
  - Designed and implemented dashboards and reporting systems to track performance metrics, facilitating data-driven decision-making.
  - Coordinated between technical teams and business stakeholders, ensuring that solutions were aligned with organisational needs.
  - Analysed market trends and emerging technologies to inform product development strategies, positioning the company for future growth.

- **Fidelity Bank PLC** *June 2018 - August 2018*
  Digital Lab Trainee Lagos, Nigeria
  - Completed intensive training in artificial intelligence, blockchain, and natural language processing, earning certifications in IBM Watson and blockchain development.
  - Participated in developing an AI-driven chatbot solution for customer service, enhancing response time by 25%.
  - Collaborated with cross-functional teams to design and implement digital solutions, gaining hands-on experience in agile project management.
  - Conducted market research and competitive analysis to identify opportunities for digital innovation, contributing to the bank's digital transformation strategy.

- **FAAN Authority Staff School** *November 2016 - October 2017*
  Computer Science and Mathematics Teacher Calabar, Nigeria
  - Taught computer science and mathematics to high school students, maintaining a 95% pass rate for students in external exams.
  - Developed and implemented lesson plans, creating engaging and interactive sessions to foster student interest in STEM subjects.
  - Organised safety drills and emergency procedures for students and staff, ensuring a safe and conducive learning environment.
  - Played a key role in mentoring students, helping them capitalise on their strengths while maintaining academic excellence.
  - Managed classroom activities and student behaviour, fostering a positive and inclusive learning environment.
  - Participated in school events and extracurricular activities, supporting student development and community engagement.
  - Marked and graded assessments, providing constructive feedback to students to support their learning and growth.

LEADERSHIP EXPERIENCE

- **Head of AI Literacy - Communications** *January 2024 - Present*
  African Institute for Artificial Intelligence (AIAI) Remote
  - Spearheaded AI literacy and educational initiatives to promote artificial intelligence understanding across diverse communities.
  - Developed social media campaigns and content to engage with a wider audience, increasing organisational outreach by 30%.
  - Developed training programmes and workshops focused on AI fundamentals, reaching over 500 participants across different sectors.
  - Managed a team of educators to deliver AI courses, ensuring the content was accessible and engaging for non-technical audiences.
  - Created a community-driven approach to AI education, leveraging industry connections to provide mentorship and career guidance to aspiring AI professionals.

- **Vice President** *June 2014 - June 2015*
  Nigeria Union of Engineering Students Association (NUESA), Kwara State University On-site

- ∘ Coordinated student activities, organised events, and managed academic support programmes for over 200 engineering students.
- ∘ Launched a mentorship initiative that improved academic performance by 15% among first-year students.
- ∘ Established partnerships with local industries, creating internship opportunities for students.

VOLUNTEER EXPERIENCE

- **Lecturer** *December 2020 - Present*
  CodeYourFuture, Birmingham, United Kingdom Remote
  - ∘ Provided hands-on instruction in web development and programming to refugees and marginalised communities, helping participants build practical coding skills.
  - ∘ Supported students in understanding key programming concepts and project-based learning, improving their overall course completion rates.
  - ∘ Assisted in the development of learning materials and delivered workshops on JavaScript, HTML, CSS, and other web technologies.
  - ∘ Continuously seek feedback from peers and students on my teaching to improve my teaching practice and ensure an excellent learning experience.
  - ∘ Mentored students and provided career guidance to help them transition into tech roles.

- **Project Manager for Gender Vanguard CDS** *November 2016 - October 2017*
  National Youth Service Corps (NYSC), Nigeria On-site
  - ∘ Led a team to organise community outreach projects focused on gender equality and education, impacting over 100 participants.
  - ∘ Developed initiatives to support girls' education, resulting in a 10% increase in school enrolment.
  - ∘ Managed logistics and fundraising efforts, securing resources for various community projects.

SKILLS

- **Programming Languages:** Python, R, Julia, JavaScript, Dart
- **Web Technologies:** HTML, CSS, Node.js, Express.js, React.js
- **Database Systems:** MongoDB, MySQL, Firebase
- **Data Science & Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Matplotlib, Pandas
- **Cloud Technologies:** AWS, Google Cloud, Microsoft Azure
- **DevOps & Version Control:** Docker, Git (GitHub, GitLab)
- **Other Tools & Technologies:** Figma, Webflow, Flask, Flutter, IBM Watson, Tableau, Power BI, Jupyter Notebook, LaTeX
- **Research and Soft skills:** Literature Review, Algorithm Development, Statistical Modelling, Data Visualisation, Academic Writing, Time Management, Project Management, Presentation, Microsoft Office Suite

CERTIFICATIONS

- **Chartered Management Institute (CMI)** *2021*
  - ∘ **CMI Level 7 Certificate** in Strategic Management and Leadership
  - ∘ **CMI Level 7 Award** in Professional Consulting

- **KPMG Virtual Experience Program (Forage)** *2020*
  - ∘ **Tasks Completed:** Data Quality Assessment, Data Insights, Data Insights and Presentation

- **The Fundamentals of Digital Marketing (Google Digital Skills for Africa)** *2018*
- **Complete Machine Learning and Data Science Zero to Mastery (Udemy)** *2020*
- **The Complete 2020 Flutter Development Bootcamp with Dart (Udemy)** *2020*
- **Cybersecurity for Business Specialization (University of Colorado, Coursera)** *2021*
- **Google IT Support Professional Certificate (Google, Coursera)** *2020*
- **edX Verified Certificate in Optimization: Principles and Algorithms** *2023*
  - ∘ **Courses Covered:** Unconstrained Nonlinear Optimization, Network and Discrete Optimization, Linear Optimization

HONORS AND AWARDS

- **PhD Studentship Award** *May 2021*
  Coventry University
  ◦ Awarded a fully-funded PhD studentship at the Centre for Computational Science and Mathematical Modelling (CSMM) to research resource allocation during pandemics.

- **Best Reviewer Award** *June 2024*
  CSMM Conference
  ◦ Received recognition for outstanding contribution in reviewing conference papers and providing high-quality feedback to authors.

- **Third Place in Community Development Project** *October 2017*
  Kwara State University (KWASU), Entrepreneurship and Innovation Challenge
  ◦ Achieved third place for leading a community development project focused on youth empowerment through technology.

PROFESSIONAL MEMBERSHIPS

- **Associate Fellow of the Higher Education Academy (AFHEA)** *2024 - Present*
- **Chartered Management Institute (CMI), Level 7 Certificate** *2021 - Present*
- **IEEE Student Member** *2021 - Present*
- **ORCID - Credential ID: 0000-0003-2763-8293**

ADDITIONAL INFORMATION

Languages: English (Professional proficiency), French (Elementary proficiency), Yoruba (Native proficiency)
Interests: Reading, Travelling, Teaching, Mentoring, Community Service, Music, and Sports (Football, athletics), AI Ethics, and Sustainability

REFERENCES

References available upon request.