AJAO-OLARINOYE MICHAEL

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PROFILE SUMMARY

Result-driven PhD student in Computational Science and Mathematical Modelling at Coventry University, with 3+ years of applied professional experience in data analysis, machine learning, and web/mobile development. Adept at identifying and resolving complex issues, I am eager to contribute my skills to drive effective decision-making and help your company achieve its goals. My ability to adapt and learn quickly will be invaluable to your organization.

TECHNICAL AND PROFESSIONAL SKILLS

- **Data Analysis and Visualization** – Python, R, Julia, SQL, NumPy, pandas, matplotlib, Plotly, Geopandas, rasterio, Tableau, and Big Query
- **Machine Learning** – Regression, classification, clustering, dimensionality reduction, random forest, boosting trees, Scikit-learn, xgboost, TensorFlow, Keras, and deep learning.
- **ML**-Ops - MLflow, Kubeflow, Airflow, and H2O
- **Cloud Computing Platforms** – AWS, Azure, and GCP
- **Web Design/Development** – JavaScript, python, Html, CSS, Nodejs, Express, react, redux, Figma, Git, flask, web Flow, WordPress, MongoDB, adobe XD, bootstrap, JSON, and Jira
- **Mobile Development** - Flutter using the Dart programming language, firebase, and API.
- **Big Data** - Apache Spark, Scala, Hadoop, and Pyspark
- **Office Suites** - Microsoft Excel, PowerPoint, Microsoft Word, Emailing and Reporting.

WORK EXPERIENCE

Graduate Teaching Assistant – Coventry university   **April 2021 – to date**

- Supported undergraduate and master's students in various modules, including Information Retrieval, Machine Learning, Advanced Machine Learning, Big Data and Data Visualization, and Artificial Intelligence.
- Assisted students in understanding complex concepts, providing guidance on coursework and assignments.
- Facilitated communication and engagement between students and faculty staff, fostering a collaborative learning environment.
- Helped improve student engagement and academic performance through personalized assistance and tutoring.
- Gained hands-on experience in teaching and mentoring, honing communication, and interpersonal skills.

Web / Mobile Developer – TAMMY Technologies   **March 2020 – January 2021**

- Designed, built, and maintained websites and mobile applications using current web and mobile technology, content creation tools, management tools, and digital media.
- Full-stack developer in JavaScript (Node.js with Express.js, React.js, Redux, Vanilla JS)
- Analyze user needs to determine technical requirements, maintain knowledge of current web technologies, and develop databases that support web/mobile applications.
- Maintain an understanding of current web technologies or programming practices through continuing education, reading, or participation in professional conferences, workshops, or groups.
- Use various external APIs with OAuth library (Google, Opinion System) and communicate with clients to design and build required products.

- Employed agile and version control processes while working with Flutter state management and packages to build mobile applications for clients from start to finish.

Data Analyst – Verificar Compliance, Lagos   **September 2018 – January 2020**
- Analyse technology trends to identify markets for future product development or improve existing product sales.
- Test, maintain and monitor computer programs and systems, including coordinating the installation of computer programs and systems.
- Analyse information processing or computation needs, plan and design computer systems, and document specifications for business intelligence, IT dashboards, or other outputs.
- Document specifications for business intelligence, information technology (IT) dashboards, or other outputs.
- Handle meetings between stakeholders and vendors, communicate the company's needs, and negotiate with vendors.

EDUCATION

- **PhD computational Science and Mathematical Modelling** – Coventry University   **2021 – 2024**
  Thesis topic
  - Effective algorithms for infectious disease resource allocation applied to COVID-19 pandemic - studentship.

- **MSc Data Science and Computational Intelligence –** Coventry University   **2020 – 2021**
  Dissertation
  - Plant disease detection, A cross-platform mobile application using Artificial neural networks.

- **BEng Electrical and Electronics–** Kwara State University   **2011 – 2016**
  Project topic:
  - Designed and build a 2km low-power Fm transmitter.

PROJECTS

- Dog Breed multiclass classification using Neural networks with transfer learning methods.
- Vertical search engine from crawled data and document clustering analysis
- Application of machine learning algorithms to predict the survival outcome from the titanic dataset.
- Topic modelling: implementing the COVID-19 text classification model's transformation using vector space algorithms.
- Design of a fuzzy logic controller for a greenhouse and optimized with genetic algorithm optimization in MATLAB.
- Customer Churn Prediction and hyperparameters optimization analysis
- COVID-19 vaccine tweet sentiment and time series analysis using artificial intelligence techniques.
- Application of Machine Learning techniques to predict marketing trends for a bank marketing product.
- Deep Learning based Forecasting of COVID-19 Hospitalisation in England: A Comparative Analysis
- Modelling Regional Infectious Disease Spread with Physics-Informed Neural Networks: A Study on COVID-19 Dynamics

TRAINING AND CERTIFICATIONS

- **Chartered Management Institute** CMI Level 7 Certificate in Strategic Management and Leadership

- **Chartered Management Institute** CMI Level 7 Award in Professional Consulting
- Associate Fellow of the Higher Education Academy (AFHEA)
- KPMG Virtual Experience program participant (2020) Participated in the open-access KPMG Virtual Experience Program with Forage. Task completed includes:
  - Data Quality Assessment
  - Data Insights
  - Data Insights and Presentation
- The Fundamentals of Digital Marketing (Google digital skills for Africa)
- Complete Machine Learning and Data Science Zero to Mastery Udemy
- The Complete 2020 Flutter Development Bootcamp with Dart Udemy
- Cybersecurity for Business, a 4-course specialisation by the University of Colorado System on Coursera
- Google IT Support Professional Certificate, a 5-course specialisation by Google on Coursera
- edX Verified Certificate for Optimization: principles and algorithms - Unconstrained nonlinear optimization, Network and discrete optimization and Linear optimization
- ORCID - Credential ID 0000-0003-2763-8293

EXTRACURRICULAR ACTIVITIES / VOLUNTEERING

- **CodeYourFuture** – Teaching Assistant, Birmingham, United Kingdom   **December 2020 – to date**
- Project Manager for Gender Vanguard CDS (NYSC)
- Vice president (NUESA) Nigeria union of engineering student association 2014, Kwara state university
- Student seminar organiser centre for mathematical modelling