ABIODUN MUHAMMAD-AHMAD ODUKAYE

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ONLINE PRESENCE

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OBJECTIVE

Versatile Software and Machine Learning Engineer with over 9 years of expertise in developing cutting-edge web applications and scalable machine learning solutions. Experienced Training Development Specialist with a proven track record of delivering impactful training programs that empower teams and drive organizational growth. Skilled in leveraging technologies such as JavaScript, React, Next.js, Tailwind CSS, and Python to solve complex challenges, enhance user experiences, and build intelligent systems. Adept at fostering innovation, mentoring talent, and aligning technical strategies with business objectives.

SKILLS

Programming Languages	JavaScript, Python, R, MATLAB
Frameworks & Libraries	Node.js, React, NextJS
Databases	MySQL and MongoDB
Tools & Platforms	Git, Prisma-IO, AWS
Front-End Technologies	HTML, CSS, Tailwind CSS, Radix-UI, Daisy-UI
Machine Learning Tools	Pandas, Numpy, Matplotlib, Scikit-learn, Colab, Jupyter, TensorFlow
Soft Skills	Communication, Critical Thinking & Problem Solving, and Teamwork & Collaboration

PROFESSIONAL EXPERIENCE

Software/Machine Learning Engineer (FreeLance)   Jan 2016 - Till Date
Kernel Greens Integrated Services   *Lagos, Nigeria*

- Developed a predictive machine learning model to forecast climate-sensitive waterborne disease outbreaks in Tanzania, leveraging climate, sanitation, and water quality datasets. Achieved a highly competitive Mean Absolute Error score and contributed to actionable insights for public health interventions.

- Engineered a robust issue tracking system for both web and mobile platforms, enhancing service delivery and customer satisfaction by 35%.

- Developed a supervised machine learning model to predict rainfall likelihood using meteorological data, achieving 90% accuracy with optimized Random Forest algorithms and leveraging on tools such as Python, Scikit-learn, and Pandas. Translated complex data into actionable insights for weather-dependent industries while showcasing expertise in predictive analytics and data visualization.

- Designed and deployed a weather reporting application for web and mobile users, resulting in a 50% increase in user engagement within the first three months. Integrated OpenWeatherMap API for real-time data.

- Launched a scalable marketplace app for web and mobile platforms, achieving a 25% monthly increase in transactions.

- Developed an educational testing platform that enabled various educational providers to efficiently deliver tests to students, increasing user adoption by 40%.

Senior Training & Development Specialist — May 2014 - Till Date
Industrial Training Fund — *Nigeria*

- Led comprehensive training needs analyses and assessed data for client organizations, accurately identifying knowledge and skill gaps. Developed customized models that improved the accuracy of training needs identification by 90%, enhancing the effectiveness of training programs.
- Created high-quality instructional materials and content aligned with learning objectives, employing the ADDIE instructional design model. Resulted in a 20% increase in learner engagement and knowledge retention.
- Ensured optimal resource allocation and streamlined processes for training projects from analysis to evaluation. Implemented data-driven strategies that enhanced ROI by 30%, driving productivity and efficiency.
- Collaborated with other development team in developing the organization's Enterprise Resource Planning (ERP) system, which boosted efficiency and productivity by 25%. Focused on exceeding customer service delivery expectations and achieving regulatory compliance.

EDUCATION

Applied Data Science II:
Machine Learning Statistical Analysis (with honors), WorldQuant University — 2020

Applied Data Science I:
Scientific Computing Python (with honors), WorldQuant University — 2020

MSc. (Electrical & Electronic Engineering), University of Ibadan, Nigeria — 2016

BSc. (Electronic & Computer Engineering), Lagos State University, Nigeria — 2010

CERTIFICATIONS

- AWS Cloud Practitioner
- Cisco Certified Network Associate (CCNA)

PROFESSIONAL AFFILIATIONS

- Associate Member, Nigeria Society of Engineers (MNSE)
- Professional Member, Council For the Regulation of Engineering in Nigeria (COREN)

PROJECTS

Rainfall Prediction Using Machine Learning — [Project Repository]

- **Objective:** Developed a supervised machine learning model to predict rainfall likelihood based on meteorological parameters such as humidity, temperature, wind speed, and pressure.
- **Key Responsibilities:**
  - Collected and preprocessed a weather dataset, handling missing data and outliers for improved data quality.
  - Engineered features and optimized the dataset to enhance predictive accuracy.
  - Implemented and evaluated multiple ML algorithms, including Logistic Regression, Random Forest, and Gradient Boosting, achieving an accuracy of 90%.
  - Visualized key insights using Matplotlib and Seaborn, providing actionable recommendations for stakeholders.
- **Tools and Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook.
- **Outcome:** Delivered a robust prediction model that can assist in weather-related decision-making for agriculture and disaster management.

- **Skills Demonstrated:** Data preprocessing, feature engineering, model training and evaluation, and data visualization.

ResolveSync   [Project Repository]

- **Objective:** A ticket tracking App that drives quality assurance in service delivery and customer satisfaction.
- **Tools and Technologies:** Next.JS, Context API, MySQL, Prisma-IO and Tailwind-CSS dependent libraries.

Testmate   [Project Repository]

- **Objective:** An Educational testing App that allows random educational providers to deliver tests to evaluate their students' knowledge.
- **Tools and Technologies:** Next.JS, React Native, Redux Toolkit, MongoDB, and Taiwind CSS-dependent UI libraries.
- **Repository:** https://www.github.com/Xloanx/testmate.git