RICHARD OLAMIDE OLANITE

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EDUCATION

University of Ilorin **Oct 2018 – Aug 2024**

Bachelor of Engineering (B.Eng.), Mechanical Engineering *Ilorin, Nigeria*

- GPA: 4.09 (Second Class Upper Division)

SKILLS AND EXPERTISE

- **Languages**: Python, SQL.
- **Machine Learning and Deep Learning**: Pandas, Numpy, Matplotlib, TensorFlow, PyTorch, Keras.
- **NLP**: Gpt-3, NER, Word2Vec, BERT, GloVe.
- **Data Processing**: Data Analysis, Model Evaluation, Statistical Methods, Feature Engineering.
- **Soft Skills**: Project Collaboration, Project Documentation, Excellent Communication.
- **Computer Vision**: Transfer Learning, ResNet50, R-CNN, RetinaNet, U-Net.
- **Reinforcement Learning**: Q-Learning, Policy Gradients, Evaluation Metrics.

PROFESSIONAL EXPERIENCE

Digital Fortress Institute **February 2025 – Present**

Machine Learning Engineer *Lagos, Nigeria*

- Developed and deployed ML solutions across business, engineering, healthcare, and operations, automating workflows and improving forecasting accuracy.
- Built a fraud detection model (ROC AUC = 0.94) and a heart disease predictor (98% accuracy), identifying key risk features and health indicators.
- Created clear visualizations/reports (Seaborn, Matplotlib), leveraged SQL for ETL, and deployed scalable ML solutions with Docker and Kubernetes.

Baleo Product Company **Mar 2018 – Jan 2023**

Contract Manager *Lagos, Nigeria*

- Managed end-to-end contract execution in a high-paced printing press, introducing ML solutions to boost efficiency and client satisfaction.
- Built a machine-failure prediction (64% accuracy) and contract delivery forecast models, improving maintenance planning and deadline accuracy.
- Developed a churn prediction system (86% accuracy, 68% precision) with LightGBM, enabling targeted retention strategies using key insights.

PROJECTS

Uber Fare Analysis and Prediction | Source Code

- Built and deployed and XGBoost Regression model to predict NYC Uber fares, achieving an R^2 = 0.81 and low RMSE (0.236) on test data.
- Engineered key features (e.g., Haversine distance, time-based indicators, one-hot encoded weekdays) to improve prediction accuracy.

- Cleaned and transformed large-scale ride data, optimizing preprocessing pipelines and ensuring reproducibility through version-controlled artifacts.

Synthetic Fraud Analysis and Prediction | Source Code

- Built and evaluated a Decision Tree Classifier for fraud detection, improving recall through SMOTE to handle severe class imbalance.
- Identified critical fraud indicators such as risk score and 7-days failed transaction count using feature importance analysis.
- Performed EDA and visualized relationships between transaction type, device type, and fraud labels to uncover actionable fraud patterns.

Sentiment Analysis and Text Classification | Source Code

- Built a text classification pipeline for multi-class sentiment analysis using TF-IDF vectorization, SMOTE resampling, and Gaussian Naïve Bayes, achieving 99.6% accuracy and perfect F1-scores
- Benchmarked 20+ models with LazyPredict and optimized hyperparameters via GridSearchCV to select the best performing model.
- Generated word clouds and top-word analyses to visualize key sentiment drivers, improving interpretability for non-technical stakeholders.

Cat-vs-Dog Image Classifier Using Transfer Learning | Source Code

- Fine-tuned InceptionV3 with custom layers to build a binary image classifier, achieving and accuracy of ≈98% accuracy on cat vs dog images.
- Implemented end-to-end workflow including data preprocessing, model training, evaluation, and real-time image prediction.
- Visualized training performance with accuracy/loss graphs.

CERTIFICATIONS

- IBM Machine Learning with Python Certificate
- IBM Python for Data Science, AI & Development Certificate
- AI and Machine Learning Algorithms and Techniques – Microsoft
- Foundations of AI and Machine Learning – Microsoft
- Building Intelligent Troubleshooting Agents – Microsoft
- Advanced Computer Vision with Tensorflow – DeepLearning.AI
- NLP in Engineering: Concepts and Real-World Applications – Northeastern University
- SQL for Data Science – University of California, Davis
- AI for Autonomous vehicles and Robotics – University of Michigan
- AI for Design and Optimization – University of Michigan
- AI for Energy and Biomedical Applications – University of Michigan
- AI for Mechanical Engineers Specialization – University of Michigan

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References are available on request.