

OLARINDE OLUBUNMI RACHEAL

479-250-7266 | onadipeolubunmi@gmail.com | [LinkedIn](#) | [Github](#)

ABOUT ME

Results-driven Data Scientist and Machine Learning Engineer with a strong foundation in data analysis, predictive modeling, and deep learning. Strong background in **data analysis, feature engineering, and model deployment** with experience in **Python, R, SQL, and cloud computing**. Passionate about using **AI/ML to drive business decisions and optimize model performance**.

Transitioning from **teaching and the arts**, applying **structured problem-solving, analytical thinking, and cross-functional collaboration** to data science. Continuously **upskilling** through hands-on projects and formal training, including a **Udacity AWS Machine Learning Scholarship and an MSc in Data Science**. Seeking a **data-centric role** to leverage AI for real-world impact.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL

Data Science & Machine Learning: Exploratory Data Analysis, Statistical Analysis, Supervised & Unsupervised Learning, Statistical Modeling, Feature Engineering, A/B Testing

Deep Learning: Neural Networks, CNNs, Transfer Learning, Computer Vision, Natural Language Processing (NLP)

Big Data & Cloud Computing: AWS (S3, SageMaker, Lambda, EC2)

Data Visualization & Analytics: Tableau, Matplotlib, Seaborn, Pandas

Tools & Frameworks: TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, NLTK, Gensim

PROJECTS

<https://github.com/Olubunmi-Amoke>

Sentiment Analysis (NLP)

- Built sentiment classification models using Word2Vec, GloVe, and Sentence Transformers; performed hyperparameter tuning to optimize performance.
- Evaluated model accuracy and F1-scores across all embeddings and selected the best-performing pipeline.
- Loaded and fine-tuned a pre-trained LLM from Hugging Face to summarize weekly review data and extract impactful events.
- Generated structured insights by grouping data at the week level and identifying top positive and negative drivers of customer sentiment.
- **Technologies:** Python, TQDM, Pandas, Scikit-Learn, Gensim, Sentence Transformers, Hugging Face Transformers, Matplotlib, Seaborn.

Landmark Classification Project (CNNs)

- Built and fine-tuned deep learning models for landmark classification, improving test accuracy from 41% (custom CNN) to 79% (ResNet50 with transfer learning).
- Enhanced model generalization with advanced data augmentation techniques, batch normalization, and dropout.
- Developed reusable utility scripts for data preprocessing, training, and performance logging.
- Provided visualizations of training and validation loss/accuracy curves to evaluate model convergence.
- **Technologies:** Python, PyTorch, OpenCV-Python-Headless, Pillow, livelossplot, TQDM, Pytest.

ML Workflow for Scones Unlimited (AWS)

- Designed an event-driven machine learning pipeline using AWS Sagemaker, Lambda and S3.
- Built and deployed an image classification model for logistics optimization, automating vehicle type detection.
- Instrumented and monitored the model endpoint using SageMaker Model Monitor, tracking drift and performance over time.
- Conducted inference testing and achieved 98% accuracy at a 95% confidence threshold.
- Built a stakeholder-facing visualization dashboard to display endpoint performance trends over time.
- **Technologies:** AWS (S3, Sagemaker, Lambda, Model Monitor), Python, Machine Learning.

EXPERIENCE

Primrose School at Rancho Sienna, Georgetown TX

Teacher Support | October 2020 - February 2025

- Implemented **data-driven lesson plans** to improve learning outcomes.
- Applied structured, **detail-oriented approaches to planning—analogueous to data validation in analytics workflows.**
- Strengthened strong **communication skills in simplifying complex concepts**, applicable in **cross-functional AI teams.**

Mustard Seed Children Academy, Bentonville AR

Teacher | September 2018 - April 2019

- Integrated **data-driven teaching strategies**, refining curriculum based on student performance metrics.
- Developed strong **communication skills in simplifying complex concepts**, applicable in **cross-functional AI teams.**

Nigeria Cleaning Service Limited, Lagos Nigeria

Accounts Clerk | May 2008 - December 2008

- Managed **financial transactions**, maintained the **general ledger**, and processed **vendor invoices.**
- Ensured **timely and accurate billing and collections**, improving the company's **cash flow management.**
- Utilized **attention to detail and organizational skills**, transferable to data validation and documentation in AI/ML workflows.

EDUCATION

Eastern University, PA

Master of Science in Data Science

August 2024 - July 2025

- **Completed Courses:**
 - Data Manipulation, Data Science for Business, Data Analytics in R
 - Data and Database Management with SQL, Cloud Foundations
 - Fundamentals of Machine Learning Models, Applied Machine Learning, Natural Language Processing
- **Ongoing Courses:**
 - Ethical and Philosophical Issues in Data Science, Data Science Capstone: *Smart Sickie Diary App - A Machine Learning App for Pain and Emotion Monitoring*

University Of Texas at Austin, TX

Post Graduate Certificate in Artificial Intelligence/Machine Learning

June 2024 - February 2025

Obafemi Awolowo University, Ile-Ife, Nigeria
Bachelor of Arts in Music

2011 - 2013

The Polytechnic Ibadan, Ibadan, Nigeria
Associate's degree in Music Technology

2009 - 2010

CERTIFICATIONS

Udacity Nanodegree

2023 - 2024

- AWS Machine Learning Engineer
- AWS Machine Learning Fundamentals
- AI Programming with Python

Codecademy

2022 - 2024

- Machine Learning/AI Engineer
- Data Scientist: Natural Language Processing
- Data Scientist: Machine Learning

SCHOLARSHIPS

AWS & Udacity AI/ML Scholar (2023, 2024)

- Selected among top applicants for **advanced AI/ML**
- Hands-on experience in **cloud-based model deployment, deep learning, and automation.**