





OKAFOR, PAUL OBINNA

MS. Data Science and Analytics.
MS. Petroleum Engineering and Project Development
BS. (Hons) Petroleum and Gas Engineering

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SUMMARY

Data Scientist and Machine Learning Engineer with 3 years of experience, specializing in computer vision and diverse ML methodologies. My expertise lies in developing and implementing advanced machine learning models and algorithms, with a particular focus on image and video analysis.

Proficient in Python, YOLO, Detectron2, PyTorch, and OpenCV, I am passionate about applying data-driven insights to address significant challenges across various domains. My work is centered around pioneering solutions in computer vision while also exploring a broad spectrum of machine learning applications.

EDUCATION

Aug. 2023 – Present	Master of Science (MS) , Data Science and Analytics University of Oklahoma, USA.
Nov. 2018 – Nov. 2019	Master of Science (MS) , Petroleum Engineering and Project Development. University of Port Harcourt, Nigeria.
Oct. 2012 - Dec. 2016	Bachelor of Science (BS) , Petroleum and Gas Engineering. University of Lagos, Nigeria.

PROFESSIONAL EXPERIENCE

Aug. 2023 - Present	University of Oklahoma, USA Graduate Research Assistant <ul style="list-style-type: none">○ Currently leading research on optimizing recombinant protein titer production in Escherichia Coli fermentations using interpretable machine learning models to increase efficiency and provide clear insights into production dynamics.○ Orchestrated an analytical project to predict hospital readmission rates, crucial for healthcare quality enhancement under the ACA guidelines. Utilized advanced classification techniques to analyze and predict trends.
Sept. 2020 - July 2023 (2 years 11 months)	Backyard Innovations Limited, Nigeria Data Scientist <ul style="list-style-type: none">○ Spearheaded predictive analytics for smart home energy systems, enhancing efficiency through advanced machine learning models, including Prophet for hourly energy consumption forecasting.

- Conducted comprehensive data analytics on smart home weather and energy datasets to optimize energy usage patterns.

Feb. 2020 - July 2020
(6 months)


Fortizo Energy Resources Limited, Nigeria
Technical Sales Engineer

- Supervised the preparation of technical bids, proposals, and quotations, ensuring accuracy and compliance with industry standards.
- Reviewed and provided expertise on process deliverables including process designs, equipment lists, sizing, heat, and material balance, etc.
- Played a key role in fostering client relationships, contributing to the achievement of sales targets and organizational objectives.

SKILLS

- Programming Languages: Python, C++, R, SQL
- Machine Learning: TensorFlow, PyTorch, Scikit-Learn, HuggingFace, OpenAI
- Computer Vision: OpenCV, YOLO, Detectron2.
- Additional Skills: Deep Learning, Neural Networks, Data Analytics, Natural Language Processing (NLP).

LICENCES AND CERTIFICATIONS

 Advanced Google Analytics Certificate - Google Digital Academy (Skillshop).
Issued Sep 2023 - Expires Sep 2026

 R for Data Science: Analysis and Visualization - LinkedIn

RESEARCH PUBLICATIONS, CONFERENCES AND PRESENTATIONS



Graduate & Postdoc Research and Scholarly Activity Day, March 2024:

University of Oklahoma, USA

- Presented a poster on Optimizing Recombinant Protein Titer Production in Escherichia Coli Fermentations using Interpretable Machine Learning, showcasing the use of machine learning to improve bioproduction efficiency.