Khalid Umar

Entry-Level Machine Learning / Deep Learning Engineer (Remote)

📍 Remote (Nigeria)
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Professional Summary

Entry-level Machine Learning and Deep Learning engineer with a strong foundation in applied mathematics, engineering systems, and data-driven modeling. Demonstrates solid **theoretical understanding** of neural network architectures (Feedforward Neural Networks, CNNs, RNNs, Transformers) and **hands-on experience implementing Feedforward Neural Networks using TensorFlow**. Background in chemical and renewable energy engineering enables strong system-level reasoning, analytical thinking, and effective translation of real-world problems into machine learning solutions. Seeking **entry-level remote roles** in machine learning or deep learning.

Technical Skills

Machine Learning & Deep Learning
- Artificial Neural Networks (ANN)
- Feedforward Neural Networks (TensorFlow – implemented)
- CNNs, RNNs, Transformers (theoretical & mathematical understanding)
- Supervised learning (regression, classification)
- Model evaluation, loss functions, optimization concepts

Programming & Tools
- Python (NumPy, Pandas – basic to intermediate)
- TensorFlow / Keras
- PyTorch (beginner – actively learning)
- Jupyter Notebook
- Git & GitHub

Mathematics Background (ML-Relevant)

- Linear algebra (vectors, matrices, system equations)
- Calculus (gradients, optimization intuition)
- Numerical and computational methods
- Basic probability and statistics for prediction and error analysis

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Selected Project Experience

Feedforward Neural Network – Prediction Model (TensorFlow)
- Designed and implemented feedforward neural networks for regression tasks
- Performed data preprocessing, normalization, and feature scaling
- Evaluated models using appropriate loss functions and performance metrics
- Interpreted results using engineering and physical system insight

(Additional TensorFlow and PyTorch projects in progress and available on GitHub)

Education

MSc, Renewable Energy Engineering (Solar Energy Technology) — *2026*
Ahmadu Bello University, Zaria

B.Eng, Chemical Engineering — *2022*
Ahmadu Bello University, Zaria

Engineering & Domain Strengths

- System modeling and input–output analysis
- Control and dynamic systems intuition
- Energy, thermal, and physics-based data reasoning
- Strong foundation for time-series and predictive modeling

Career Objective

To obtain an **entry-level remote position** in **Machine Learning or Deep Learning**, applying strong theoretical knowledge, engineering-based analytical skills, and growing TensorFlow/PyTorch implementation experience to real-world data and modeling challenges.