

# Tosin Olusa

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## Professional Summary

Data Scientist and Electrical Engineer with 5+ years of experience in **data analysis, machine learning, and automation systems**. Skilled in Python, SQL, and statistical modeling, with hands-on expertise in **deep learning (CNNs), image processing, and predictive analytics**. Adept at building dashboards in Power BI and Tableau, cleaning and analyzing datasets, and delivering actionable insights. Strong problem-solving, collaboration, and communication skills.

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## Professional Experience

### Project Engineer

*Obafemi Awolowo University – Osun, Nigeria*

Feb 2023 – Aug 2023

- Led **image enhancement and data preprocessing** project using Python and OpenCV for model training.
- Designed and deployed a **Raspberry Pi-based surveillance robot** with face recognition and real-time alerts, applying deep learning models (CNN).
- Conducted **data collection, cleaning, and analysis** to improve system accuracy.
- Delivered solutions under budget constraints while ensuring high performance.

### Freelance YouTube Script Writer

*Various YouTube Channels – Remote*

Sep 2023 – Jan 2025

- Produced over 30,000 words weekly in captivating YouTube scripts, ensuring full compliance with YouTube policies to prevent violations and sustain channel growth.
- Crafted compelling hooks, narratives, and calls-to-action that reeled in viewers, boosting engagement metrics and driving high view counts across multiple videos.
- Conducted in-depth research and fact-checking to deliver accurate, SEO-optimized content that maintained viewer interest from start to finish.
- Leveraged prompt engineering to generate innovative ideas efficiently, streamlining high-volume production without compromising quality.
- Edited and proofread scripts for grammar, flow, and readability, resulting in polished content ready for production.

## **Data Science Project (Customer Trend Analysis)**

*Independent Project – 2022*

- Collected and cleaned large datasets of customer purchase records for a retail store.
- Applied **data science methods** such as regression analysis, scatter plots, and statistical modeling to identify spending patterns and seasonal trends.
- Built predictive models to forecast future customer behavior and store sales growth.
- Generated insights on **customer loyalty**, suggesting strategies to retain existing customers and attract new ones.
- Visualized findings using **Python (Matplotlib, Seaborn)** and presented actionable recommendations for business decision-making.

## **Engineering Intern**

*Sahcol Company – Lagos, Nigeria*

Feb 2019 – Feb 2020

- Assisted in **data logging and preventive maintenance analysis** for equipment.
  - Supported senior engineers in site-based projects, applying statistical methods to evaluate performance.
  - Collaborated with multidisciplinary teams to interpret schematics and optimize workflows.
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## **Independent Data & Design Projects**

Feb 2018 – Oct 2023

- Built and trained **CNN models** for image classification and surveillance applications.
  - Developed an **Android app** to control household appliances, integrating IoT data streams.
  - Designed and calibrated **capacitance measurement equipment**, applying data acquisition and analysis techniques.
  - Engineered a **1KVA inverter** with custom sine wave circuitry, analyzing performance metrics.
  - Created **Python scripts for automation and data visualization** using Pandas, Matplotlib, and Seaborn.
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## **Education**

### **B.Sc. Electronic & Electrical Engineering**

Obafemi Awolowo University, Ile-Ife – Aug 2023

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## Technical Skills

- **Programming & Data Analytics:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), SQL, MATLAB
  - **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn
  - **Machine Learning:** Deep Learning, CNNs, Image Processing (OpenCV)
  - **Tools:** AutoCAD, Proteus, Flask, MS Excel, Microsoft Office Suite
  - **Electrical/Embedded Systems:** Circuit design, simulation, Raspberry Pi, Arduino
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## Soft Skills

- Analytical thinking & problem-solving
  - Effective communication & teamwork
  - Creativity & innovation
  - Time management under pressure
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