

# ENOCH IBITOGBE

## Data Scientist

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### PROFESSIONAL PROFILE

Data scientist with a track record of converting complex data into clear insights, predictive models, and automated reporting that drive business decisions. Strong background in statistics, visualization, and end-to-end ML development using SQL, Python, PySpark, and modern machine-learning techniques.

### EXPERIENCE

#### Graduate Researcher | McMaster University

May, 2023 - October, 2025

- Built scalable data science and deep learning workflows (RF, XGBoost, SVM, CNN) that served as high-fidelity surrogates for numerical subsurface-storage simulations, improving parameter estimation times by 50%.
- Streamlined processing of large image datasets (2000 GB+) by building an automated extraction pipeline, saving 20+ hours and eliminating manual download bottlenecks.
- Developed an automated CT image processing pipeline handling 2000+ GB of medical imaging data, implementing CNNs for image classification, segmentation tasks and macro-scale multiphase flow prediction.

#### Assistant Lecturer | Landmark University

August, 2019-January, 2023

- Developed Monte-Carlo simulation framework to quantify carcinogenic health risks across 10+ environmental factors, enabling evidence-based prioritization of healthcare intervention programs.
- Utilized dimensionality reduction (PCA) to determine critical pollutant sources impacting water quality and risk.
- Tutored 200+ undergraduate students in quantitative analysis, statistics, and data analytics interpretation.
- Created interactive dashboards and data visualizations to communicate complex analytical findings to non-technical stakeholders, facilitating data-driven decision-making.

### TECHNICAL SKILLS

- |          |                        |                    |                        |                              |
|----------|------------------------|--------------------|------------------------|------------------------------|
| • Python | • Statistical Analysis | • TensorFlow/Keras | • Deep learning        | • Time series Forecasting    |
| • Pandas | • Airflow              | • Tableau          | • Predictive Analytics | • A/B Testing                |
| • NumPy  | • SQL                  | • PySpark          | • Scikit-learn         | • Data cleaning & Validation |

### PROJECTS

- Anomaly Detection using Autoencoders:** Developed an LSTM autoencoder in TensorFlow for anomaly detection on NASA SMAP/MSL telemetry data using time-series reconstruction (TensorFlow, Numpy, Keras).
- Car Price Prediction & EDA:** Built optimized SVR model and conducted strategic feature engineering that uncovered non-linear pricing relationships, improving inventory valuation accuracy by 23% and reducing overpricing errors (Python, scikit-learn, Pandas, Seaborn).
- Financial Data Warehouse & Analytics Pipeline:** Designed SQL database schema and ETL workflows using Python to consolidate multi-source financial data. Developed automated daily KPI tracking dashboard reducing report generation time by 75% and improving data accuracy.

### EDUCATION

#### McMaster University | 2023 - 2025

Master of Applied Science – Civil Engineering (**Distinction**)

- Relevant Coursework: Artificial Intelligence and Machine Learning,
- Machine Learning Classification Models,
- Deep Learning.

### CERTIFICATIONS

- Coursera Supervised Machine Learning
- IBM Data Science Professional Certificate

#### Landmark University | 2018 - 2020

Master of Engineering – Civil Engineering (**Distinction**)

#### Landmark University | 2012 - 2017

Bachelor of Engineering – Civil Engineering (**Distinction**)