Christony Olande

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SUMMARY

Data Scientist experienced in fraud detection, forecasting, and customer behavior modeling, with strong statistical and machine learning foundations and a focus on rigorous validation, reproducibility, and practical decision-making.

EXPERIENCE

Machine Learning Data Specialist

Cloudfactory Kenya **September 2022 - April 2025, Nairobi, Kenya**

- Developed high-precision ground truth datasets for Computer Vision tasks including 3D bounding box estimation and semantic segmentation for autonomous systems.
- Engineered data validation pipelines and performed statistical quality control to minimize label noise, directly improving client model mAP and F1 scores.
- Conducted iterative model error analysis, identifying distributional edge cases in complex spatial datasets to systematically improve training data coverage.

PROJECT

CounterFraud-GNN: Counterfactual Temporal Graph Learning for Invariant Fraud Detection

Independent Project · github.com/Chrisolande/CounterFraud-GNN · August 2026 - August 2026

- Built a temporal multi-relational GNN using 122 transaction features to detect fraud under changing behavioral patterns and severe class imbalance.
- Evaluated across 5 random seeds with a strict 70/30 chronological split, achieving 0.709 AUPRC, 0.878 AUROC and 0.792 Macro-F1.
- Implemented validation-based threshold calibration, automated testing, and reproducible multi-seed benchmarking in PyTorch Lightning.

Large-Scale Time Series Forecasting with TSMixer

Independent Project · github.com/Chrisolande/TSMixer-Ext-HTS · July 2026 - August 2026

- Developed a probabilistic forecasting system for 30,490 product-store series and 42,840 hierarchical nodes over a 28-day horizon.
- Combined TSMixer with exogenous variables, static metadata, and a Negative Binomial likelihood, achieving 0.575 WRMSSE on the M5 evaluation set.
- Built the training-to-serving pipeline with Optuna, Weights & Biases, FastAPI, and Docker, with rolling-origin validation and automated tests.

Sequential Recommendation with Recursive Latent State Refinement

Independent Project · github.com/Chrisolande/latent-refinement-recsys · May 2026 - June 2026

- Developed a sequential recommendation model using 384-dimensional semantic item embeddings and recursive latent-state refinement.
- Evaluated on Amazon Luxury Beauty across 5 independent seeds using 100-item candidate sets, achieving 0.586 NDCG@10.
- Outperformed established sequential and graph-based baselines while maintaining a compact 3.9M-13.8M parameter model through shared recursive layers.

EDUCATION

BSc in Statistics and Programming

Minor in Computer Science · Kenyatta University · Nairobi, Kenya · 2026 · 75

- Relevant Coursework: Statistical Inference, Bayesian Statistics, Theory of Estimation, Measure Theory, Linear Algebra, ProbabilityTheory, Stochastic Processes.

Bsc in Analytical Chemistry

University of Nairobi · Nairobi, Kenya · September 2021

SKILLS

Technical Skills: Python, R, PyTorch, PyTorch Lightning, scikit-learn, Temporal & Relational Graph Neural Networks, Time Series Forecasting, Probabilistic Forecasting, Recommendation Systems, Causal & Counterfactual Modeling, Hyperparameter Optimization, Optuna, Bayesian Optimization, FastAPI, Docker, Weights & Biases, Git

Soft Skills: Statistical Reasoning, First-Principles Problem Solving, Experimental Design, Analytical Communication, Independent Learning