

Dumebi Gloria Akukwe

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EDUCATION

Marist University, Poughkeepsie NY

- Master of Science in Information Systems and Business Analytics Dec 2025
- Bachelor of Arts in Economics | Minor: Business Administration; French May 2022

TECHNICAL SKILLS & RELEVANT COURSEWORK

- **Languages & Tools:** Python, PostgreSQL, Excel/VBA, Git, GCP (BigQuery, Cloud Storage), Claude API, Gemini API, Tableau, Power BI
- **AI & Automation:** Prompt Engineering, LLM Orchestration, Agentic Workflows, NLP (BERT, TF-IDF), Machine Learning, Predictive Modeling
- **Data Systems:** Data Pipelines, Data Quality, Multi-tenant Architecture, LLM Integration, Statistical Analysis, A/B Testing
- **Product:** Full Product Lifecycle Ownership, Roadmap Prioritization, User Research, Cross-functional Stakeholder Management, SaaS Product Development

PROFESSIONAL EXPERIENCE

Founder & AI Product Lead – *HireRail.io (AI-Powered HR & Recruiting SaaS)* June 2024 – Present
0→1 AI product builder · Full product lifecycle ownership · Multi-tenant SaaS platform

- Architected and shipped a production AI screening engine end-to-end, from discovery and roadmap definition through engineering coordination, QA, and launch, reducing per-candidate review time by 75%
- Designed a five-dimension candidate assessment framework with temperature calibration and fairness guardrails, translating complex recruiter and compliance requirements into intuitive AI-powered workflows
- Built an agentic hiring workflow covering multi-stage pipeline management, credit-based usage metering, and webhook-driven Stripe billing across a multi-tenant SaaS platform, iterating continuously based on real usage data
- Led end-to-end prompt engineering for a structured candidate evaluation system with no-fabrication constraints and bias guardrails for cross-regional talent assessment

Product & Curriculum Architect – *MsSuzie.io (K-12 EdTech Startup)* Sept 2024 – Dec 2024
NLP-powered learner diagnostics · Cross-functional data product · Mission-driven EdTech

- Developed NLP-based classification models to analyze student input across 30+ behavioral and learning indicators, enabling automated learner diagnostics
- Designed data collection frameworks to standardize multi-source K-12 data, improving analytical consistency and reducing variability
- Built rule-based decision models to convert unstructured tutor-student interactions into measurable performance metrics

Graduate Assistant, Data Strategy & Public Engagement – *Marist University, Office of Admissions* Jan 2024 – Dec 2025
Executive dashboards · Recruitment funnel analytics · Institutional strategy

- Built and maintained executive-level dashboards using Salesforce and Excel to analyze recruitment funnel performance, reducing reporting turnaround time by 40%
- Analyzed multi-source global survey data (2,800+ respondents), informing institutional strategy including Marist's transition from college to university
- Performed ad-hoc and recurring analyses on recruitment and engagement metrics supporting resource allocation and campaign decisions

Data Analyst (Intern) – *Success Academy Charter Schools* Jun 2023 – Jan 2024
SQL pipelines · Academic performance analytics · Stakeholder enablement

- Engineered SQL-based data pipelines integrating multiple datasets, reducing reporting latency by 50% and improving data accuracy for performance tracking
- Conducted statistical analyses on academic and behavioral datasets to evaluate interventions and identify performance trends
- Delivered insights and trained 60+ stakeholders on data interpretation, improving organization-wide data fluency

FEATURED PROJECTS

Fraud Detection & Investigation System

- Detected fraud across 590K transactions using XGBoost (0.924 AUC) with end-to-end feature engineering from raw transaction signals: velocity, address completeness, email domain, and card type

- Quantified causal fraud drivers using DoWhy and Difference-in-Differences; credit cards 4.36 percentage points riskier, missing billing addresses carry 5× higher fraud rate
- Built SHAP explainability layer and LLM-generated plain English summaries so model predictions are interpretable for non-technical reviewers, directly applicable to making complex compliance decisions legible for builders

NLP Clustering & Anomaly Detection – Mental Health Signal Analysis

- Analyzed 33,554 Reddit posts using TF-IDF, BERT embeddings, and K-Means clustering to identify behavioral patterns in unstructured text
- Detected hidden high-risk signals and anomalies, revealing ~26.5% of posts contained crisis indicators missed by baseline sentiment models
- Applied association rule mining (428K+ rules) and sentiment analysis to uncover linguistic patterns and improve interpretability

AWARDS & ACHIEVEMENTS

- **PPIA JSI Fellow (Advanced Economics Track)** – Princeton University 2022
Awarded Princeton’s Junior Summer Institute Fellowship, a prestigious fully funded program in economics and policy
- **Marist Presidential Scholarship Award** – Marist University 2019–2022
Most prestigious merit-based scholarship granted to top-performing students for excellence and impact

LEADERSHIP & COMMUNITY ENGAGEMENT

- Volleyball League Player (Mid-Hudson Athletic Center, DC Sports League) Present
- Founder and President, African Student Association – Marist University 2021–2022
- Operations Director (Volunteer, Remote), Eastern Nigeria Film & Arts Initiative 2024
- Treasurer, Marist Graduate Student Network (GSN) Dec 2025
- Volunteer, Restoration Food Pantry (350+ hours) 2019–Present