

Daniel Okonma

Data Specialist & AI Engineer

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📁 WORK EXPERIENCE

- Member of GenAI Community of Practice**, *Definity Insurance Company* Oct 2024 – Present | Toronto, Canada
- **Technical Consultant:** Selected as a core member to evaluate and promote safe enterprise GenAI usage. Provided high-level technical consultation to teams in **Legal, Risk, and Corporate Communications** for expedited AI access and tool approval.
 - **GenAI Advocacy:** Presented a Gemini-based document extraction PoC to the committee as a high-ROI case study, demonstrating how to ground LLM outputs in structured internal data to eliminate hallucinations.
 - **Knowledge Leadership:** Facilitated monthly **technical office hours** and led workshops for 20+ stakeholders on the practical application of Microsoft Copilot and Google Gemini for productivity gains and business process automation.
- Fraud Analytics Specialist**, *Definity Insurance Company* Nov 2023 – Present | Toronto, Canada
- **System Design & Implementation:** Built the department's first end-to-end ML research and automation framework from scratch, transforming legacy manual processes to deliver \$4.5M in validated fraud savings.
 - **Generative AI & xAI:** Developed an automated information extraction pipeline using Gemini LLM to parse unstructured vehicle reports. Implemented an Explainable AI layer that translates SHAP values from a meta-classifier into natural language summaries, making black-box PDF metadata predictions interpretable for non-technical stakeholders.
 - **Computer Vision:** Adapted a Document Tampering Detector (DTD) deep learning model for insurance-specific forgery. Managed the Precision/Recall trade-off (89% Recall) by designing a "Tampering Mask" visualization to assist human investigators in validating low-precision (39%) model outputs.
 - **Data Engineering:** Architected and deployed GCP-native ETL pipelines using Dataflow and BigQuery to cross-reference multi-source external intelligence. This system automates the identification and deflection of high-risk assets, handling 100% of pre-bind quote verification for the Sonnet (Digital) line.
 - **Technical Product Ownership:** Authored the Business Requirements Document for a Centralized Fraud Intelligence Platform (CFIP), defining the data schema for OSINT, investigation artifacts, and behavioural analytics for a multi-year cloud migration.
 - **Team Development:** Scaled the Fraud Analytics unit from a solo function to a collaborative unit by defining the technical roadmap, designing assessment frameworks for new hires, and onboarding offshore technical talent.

🧠 SKILLS

Languages: Python | SQL

AI & Machine Learning: LLMs (Gemini API, ChatGPT) | Google ADK | MCP | Prompt Engineering | Explainable AI | Computer Vision | Anomaly Detection

Cloud & Infrastructure (GCP): Vertex AI | BigQuery | Cloud Storage | Cloud Functions | Dataflow

Tools & Engineering: Git | Bash Scripting | Podman | API Integration | Technical Documentation

🎓 EDUCATION

Bachelor of Science - BS, Computer Science, *York University* Sep 2018 – Sep 2022 | Toronto, Canada
First Class Honours

📁 PROJECTS

- Tableau Network Graph** 🔗 Jun 2025 – Jul 2025
Developed a tool for visualizing and analyzing e-transfer transaction networks for fraud detection
- Generated synthetic data and transformed it for Tableau analysis
 - Implemented fraud flagging capabilities to enhance detection
- NBA PCA Analysis** 🔗 Jun 2023 – Oct 2023
Analyzed NBA player shooting tendencies using PCA and clustering techniques
- Aggregated player stats for volume analysis
 - Reduced high-dimensional data to reveal player archetypes
- ML Implementations** 🔗 May 2023 – Aug 2023
Created a repository with machine learning method implementations in Python and R
- Implemented various ML methods and provided examples for usage