

# 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

- **Generative AI Technical Consultant:** Provided expert technical **consultation** on Generative AI and Large Language Models to teams in Legal, Risk, and Corporate Communications to promote and evaluate safe enterprise GenAI usage.
- **LLM Advocacy:** Presented a Gemini-based document extraction Proof of Concept (POC) demonstrating Large Language Model (LLM) capabilities for automated document processing and **reducing hallucinations**.
- **Knowledge Leadership:** Led workshops on **Google Gemini Enterprise** and **Microsoft Copilot**, increasing team proficiency in GenAI by 26% and demonstrating practical applications of these technologies.

**Fraud Analytics Data Specialist**, *Definity Insurance Company* Nov 2023 – Present | Toronto, Canada

- **System Design & Implementation:** Built the fraud detection department's first end-to-end **ML research and automation framework** using Python, Vertex AI, and BigQuery, delivering \$4.5M in validated fraud savings.
- **Generative AI & XAI:** Leveraged **Gemini LLM** for automated information extraction, improving pipeline efficiency by 72%. Implemented an Explainable AI (XAI) layer onto a document-tampering classifier that translates SHAP values into natural language summaries for non-technical stakeholders.
- **Computer Vision:** Adapted a **Transformer-based** Document Tampering Detector model using PyTorch for insurance-specific fraud detection. Optimized Precision/Recall balance using threshold-adjusted tampering mask.
- **Data Engineering:** Leveraged Vertex AI and BigQuery to architect and deploy fraud intelligence ETL pipelines on GCP. This system automates the identification and deflection of high-risk entities, 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

#### Generative AI & Machine Learning

##### LLMs

- Google Gemini
- ChatGPT

##### Frameworks

- PyTorch
- Transformers
- Ollama
- LM Studio

#### Data Science & Cloud

##### Data Manipulation

- Pandas
- NumPy

##### GCP

- Vertex AI
- BigQuery
- Cloud Storage
- Cloud Functions
- Colab Enterprise

#### Software Engineering

##### Languages

- Python
- Java
- SQL

##### Tools

- Git
- Cline
- Docker
- Shell Scripting

### 🎓 EDUCATION

**Bachelor of Science - BS, Computer Science**, *York University*  
First Class Honours

Sep 2018 – Sep 2022 | Toronto, Canada

### 📁 PROJECTS

#### Tableau Network Graph [🔗](#)

Jun 2025 – Jul 2025

Developed a tool for visualizing and analyzing e-transfer transaction networks for fraud detection

- Uses realistic bank e-transfer 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