

Abdullah Ali

Data Governance Analyst | AI & Data Science

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[Links](#)

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Profile

Data Governance Analyst and **Data Science/AI Specialist**, currently pursuing an *MSc in Analytics*. Experienced in building enterprise *data governance programs* from the ground up in regulated healthcare environments, including PCI DSS compliance as an ISA-certified assessor. Strong hands-on background in *AI research (agentic LLMs, RAG systems, machine learning, and analytics)* applied to real-world policy, climate, and business challenges. Known for clear communication, stakeholder alignment, and delivering scalable, audit-ready solutions.

Employment History

Apr 2025 — Present

Trinidad and Tobago

Data Governance Analyst at Carenet Health

- Designed and implemented the organization's **first enterprise-wide data governance framework**, transforming a fragmented environment into a structured, auditable program.
- Established **enterprise data observability**, discovering, cataloging, and classifying sensitive data (PHI/PII) across databases and file systems at schema level.
- Built a **centralized data map and enterprise data dictionary**, improving visibility into data ownership, access, usage, and purpose; reduced data discovery time from weeks to minutes.
- Implemented **risk-based data classification and sensitivity tagging**, significantly improving audit readiness and regulatory transparency.
- Designed standardized **data flow models and SOPs** governing data intake, processing, storage, sharing, and normalization across departments.
- Defined and operationalized **data ownership, stewardship, and custodianship roles**; helped establish a bi-annual Data Governance Oversight Committee.
- Implemented **full data lifecycle governance**, including retention, de-identification, and compliant destruction of legacy data; enabled issuance of certified data destruction attestations.
- Engineered **automation-first governance**

Skills

Data Governance & Compliance

AI & Machine Learning (LLMs, RAG, NLP, Analytics)

Automation & Workflow Orchestration

Leadership, Problem Solving, and Strategic Thinking

Backend & API Development

Research, Technical Writing & Stakeholder Communication

solutions using internal infrastructure, reducing manual effort and eliminating reliance on third-party tooling.

- Served as the company's **sole Internal Security Assessor (ISA)**, leading PCI DSS compliance, internal audits, SAQs, and enforcement of security controls.

May 2024 — Present

Data Science Researcher at TT Lab

Selected Research & Projects

- ***Spoke and presented*** at the **21st Caribbean Internet Governance Forum**, on the topic of Data Governance for Caribbean Use and Problem Solving
- **AI4SIDS**: Leading development of an AI-driven disaster resilience proof-of-concept using agentic LLMs and RAG for real-time climate risk management, in collaboration with ODPM.
- **IEEE CARIBCON 2026 (Lead Author)**: Authored research proposing an agentic RAG framework for accelerating sustainable development in Small Island Developing States.
- Contributed to book chapter abstract submission for *"Achieving Climate Action and Sustainable Development Goals (SDGs) Together."*
- Developed a **machine learning-based foliar disease detection application** to improve early agricultural disease identification.
- Participated in AI competitions, conferences, and mentorship programs focused on big data and applied machine learning.

Sept 2024 — Mar 2025

Data & AI Engineer at I'dEffect Limited

- Designed and implemented **RAG-powered LLM pipelines** using Python, FastAPI, and Google Colab to fine-tune models on proprietary data.
- Built a **production-ready AI chatbot backend**, integrating MiniLM embeddings, OpenAI GPT-4o-mini, session-based memory, and secure data handling.
- Optimized chatbot workflows using **n8n automation**, improving performance and reducing computational overhead.
- Designed an **automated job scraping and NLP analysis system** for Trinidad & Tobago job

markets, enabling CV uploads, skill-gap analysis, and interview insights.

- Researched and designed **AI-powered learning analytics dashboards**, leveraging deep learning to identify learning patterns and personalize instruction (Moodle integration).

May 2024 — Aug 2024

Full Stack Web Developer Intern at I'dEffect Limited

- Developed and maintained web applications using React, Next.js, Node.js, and modern web technologies.
- Collaborated with designers to deliver intuitive UI/UX experiences and responsive interfaces.
- Built and integrated backend services and databases (MongoDB, Supabase).
- Produced technical documentation and supported deployments through to production.

Education

Jan 2026

Georgia Institute of Technology

MSc - MS Analytics

- Ongoing with a focus on **Machine Learning** and **AI Driven Digital Transformation Technologies**

Sept 2021 — Aug 2024

St. Augustine

University of the West Indies - St. Augustine Campus

BSc Computer Science

- Upper Second Class Honours
Focus: Data Science and Web Technologies
Leadership: President, UWI Islamic Society (2021–2023)

Sept 2014 — Jun 2021

Chaguanas

Presentation College Chaguanas

High School Diploma

- President of the college's tech club - Tech Initiative 2019 - 2021
- Cariri's Young Innovators Mobile App Competition (2018)

Jun 2025 — Sept 2025

PCI Security Standards Council

PCI Internal Security Assessor (ISA)

Apr 2025 — May 2025

NVIDIA

Building RAG Agents with LLMs

Jun 2018 — Aug 2018

Montrose, Chaguanas

CTS College of Business And Computer Science Ltd

CompTIA A+ & PC Repair

Feb 2025

n8n.io

Level One Certification & Level Two Certifications

Hobbies

Formula 1, football, reading on geopolitics and human behavior, and language learning (Spanish. Arabic).