

Mbachu Emmanuel

Data Analyst

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Professional Summary

Analytical and research-driven Data Analyst with hands-on experience in **applied research, big data analytics, and data visualization**, and growing exposure to **cloud platforms, Microsoft Azure, and applied AI models**. Proven ability to collect, clean, analyze, and interpret **quantitative and qualitative data** to support evidence-based decision-making. Strong technical foundation in **Python, R, SQL, Apache Spark, Power BI, SSIS, and SSRS**, with experience translating complex findings into clear insights for technical and non-technical stakeholders.

CORE SKILLS

Data & Analytics: Python (Pandas, NumPy, Matplotlib, Scikit-learn), R (tidyverse, ggplot2), SQL (SQL Server, PostgreSQL, MySQL), Excel (Power Query, PivotTables, statistical functions), Power BI (interactive dashboards, KPIs, DAX fundamentals), Tableau, Flourish, ETL & reporting workflows (SSIS, SSRS), Data cleaning, transformation and validation, Exploratory data analysis (EDA), Large-dataset handling and performance-aware analytics.

Professional & Analytical Capabilities: Critical thinking and analytical problem-solving, Data-driven decision-making, Clear technical and non-technical communication, Stakeholder engagement and requirements interpretation, Organization, time management, attention to detail, Cross-functional collaboration, Documentation and presentation of findings.

WORK EXPERIENCE

Data Analyst | NewRoots (Applied Research), *Halifax* 2025- Present

- Conduct data collection, analysis, and visualization to support **housing and property management research initiatives**.
- Analyze qualitative data from research interviews and field observations, integrating insights with quantitative analysis to support evidence-based planning and decision-making.
- Develop clear visual outputs and summaries to communicate findings to research and non-technical stakeholders.

Makerspace Assistant | NSCC, *Halifax* 2025- Present

- Support daily operations in a multidisciplinary makerspace focused on innovation, prototyping, and applied technical learning.
- Operate and support laser cutting and engraving workflows using the xTool P2, including material preparation, safety procedures, and production guidance.
- Facilitate and support a micro:bit workshop, introducing students to embedded systems, sensors, and basic programming concepts.

- Gain hands-on experience in 3D modeling and additive manufacturing using Fusion 360 and Blender.

Product Supervisor / Retail Specialist | The North West Company, Halifax
 Summer 2024- 2025

- Supervised inventory operations and ensured accuracy in a fast-paced retail environment.
- Used Excel and internal reporting tools to track product movement and support inventory optimization.
- Developed leadership, operational analytics, and data handling skills applicable to business analytics roles.
- Collaborated across teams to improve process efficiency and customer experience.

EDUCATION

Nova Scotia Community College (NSCC) *Halifax, NS*
 Diploma, IT Data Analytics

Google (Coursera)
 Google Data Analytics Certificate

IBM (Coursera)
 IBM Data Science Certificate

AWARDS & INNOVATION

EYED – Accessibility Innovation Project **NSCC-Funded**

- Awarded funding to design the initial system architecture for EYED, an assistive technology concept providing suggestive feedback for visually impaired individuals.
- Focused on accessibility-driven design, early system modeling, and applied technology concepts.
- Project emphasizes human-centered design, innovation, and social impact.

LEADERSHIP & VOLUNTEER EXPERIENCE

Student Wellness Strategy Committee Member – NSCC | 2025 – Present

- Contributed to student wellness initiatives through planning, feedback collection, and accessibility-focused discussions.

Volunteer Mission Mart | 2025 – Present

- Supported daily operations and community outreach initiatives in an inclusive environment.