Glady Hazitha samuel

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# Education

**Georgia Tech - MS in** Analytics (Expected May 2026, part-time, remote)

**Medical University of South Carolina** - **PhD** Molecular Biology

**Westmont College - BS**  Biology

# Experience

Data Analyst /Co-Founder | HealthMappers July 2022-Sep 2024

* Designed and implemented scalable healthcare analytics solutions, transitioning processes from Excel to Python-based workflows for enhanced efficiency. Collaborated with cross-functional team to integrate diverse data sources.
* Developed a pipeline for drug surveillance by integrating data from clinicaltrials.gov, Pubmed.gov, and Snowflake. Automated the data input and transformation process with SQL and Python, for structured/unstructured data, and built dashboards to track strategic metrics and KPI’s.
* Developed pipeline to analyze RWD of 20,000+ patient reviews and media reports using NLP (NLTK,SpaCy,pyLDAvis) in consultation with key stakeholders. Used sentiment analysis to identify shifts in public perception over time.
* Conducted impact analysis of trial failures using publicly available data to identify key drivers of early termination that could inform policy recommendations.
* Utilized Python’s **NetworkX** to construct interactive network graphs that mapped relationships between entities such as healthcare providers and clinical trial sites.

Research Data Scientist | Texas A & M Aug 2016- Sep 2020

* Managed and analyzed complex datasets exceeding 1 million data points using Python, R, SQL and Excel, achieving a 20% improvement in processing efficiency.
* Developed custom statistical models and visualizations that translated intricate biological data into actionable insights. Conducted in-depth data analysis on vector-control strategies, leveraging **statistical methods and advanced analytics** to assess the impact of interventions on vector-borne disease.
* Streamlined data workflows and quality control processes using **Excel automation (Macros, VBA),** reducing analysis turnaround times by 30%.

Research Associate | Virginia Tech June 2015- Aug 2016

* **Cross-Functional Analytics:** Developed custom statistical models and visualizations that translated intricate biological data into actionable insights, contributing to cross-functional decisions.
* **Documentation and Reporting:** Documented experimental workflows and results in comprehensive reports for data traceability and quality control. Created clear, concise data visualizations and reports for both technical and non-technical audiences.

# Skills

**Programming & Analysis**: Python, R, SQL, Linux, Excel

**Excel:** Advanced formulas (INDEX/MATCH, VLOOKUP), pivot tables & pivot charts, What-If analysis, VBA Macros.

**Data Science & Modeling:** Machine Learniung (scikit-learn, Keras, PyTorch), Time Series Analysis, Statistical Modeling, Predictive Analytics, GenAI – prompt engineering and fine tuning

**Data Visualization & Dashboarding:** Plotly, Seaborn, Bokeh, Holoviz, Streamlit, Flask, Basic Tablea

**Database & Reporting:** SQL querying, Data Wrangling (Pandas, Numpy), Automated Reporting

# Certifications

**Business Analytics with Excel |** John Hopkins University

**Databases and SQL for Data Science with Python |** IBM

**Python for Data Science, AI & Development | I**BM