

Jermaine Samuels

Experienced Data Engineer and Data Scientist with a strong background in Business Analytics with a focus on building interactive and data intensive applications.

Relevant Experience

Data Engineer • Fujitsu Caribbean Limited Nov 2020 - Present

- Scripted unique on-premise data transformation solutions for clients using Python.
- Conducted requirements gathering sessions and proposed relevant data architectures.
- Built reliable and scalable ETL pipelines using Azure Data Factory, Databricks, Synapse Analytics and Azure Data Lake Gen2 Storage.
- Utilized Git and Azure DevOps Git to manage code base and pipeline deployment across multiple environments.
- Delivered high quality, production ready pipelines for an array of projects for enterprise clients such as RedStripe Jamaica Limited and National Water Commission Jamaica.
- Evaluated client documentation and technical requirements to implement data lakehouse solutions.
- Implemented departmental and global data analytics dashboards for clients using PowerBI.
- Built Proof of concept designs for azure cloud architecture and included data governance framework using open-source tools such as datahub.
- Provided and redefined query optimization protocols for latency management and timely dashboard refresh yielding at least 30% improved efficiency.
- Built prediction models with Databricks and Azure machine learning via Python or Spark, and hosted analysis results in PowerBI online dashboards.
- Implemented metadata driven tasks for large scale data staging between client subscriptions to facilitate local reporting.
- Implemented internal azure architecture to manage user resource group deployment for support service sales opportunities.

Business Analyst • Guardsman Limited Jul 2017 – Nov 2020

- Generated departmental KPI reports for accounts receivables, billing and collections department.
- Lead and conducted in depth analysis of business performance versus business goals.
- Established relationships across disparate data sources and datasets for executive dashboards and data warehouse needs.
- Automated report generation with macro scripts within excel and python for csv generation.
- Created solution to track and tag unapplied cash to stimulate invoice generation using CRON tasks and pdf scraping.
- Collected and documented requirements for departmental business and data analytics.
- Redefined standard operating procedures for generating bad debt reports for the receivables and finance department.
- Significantly reduced operational delay and vehicle dispatch reporting with task automation scripts with python.

Data Scientist • University of the West Indies (Co-Op) May 2021 – Aug 2021

- Built a Jupyter notebook deployment via viola to predict and segment gliomas using convoluted neural network and hosted the models on premise using a .h5 file.
- Performed natural language processing of scholarly articles to define how cnn may be improved by contrasting additional features from MRI scans.

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Skills

Programming Languages

Python, SQL, Scala, R, Spark, CSS, HTML.

Libraries and Framework

Pandas, numpy, scikit learn, matplotlib, SciPy, Flask, Django

Tools and Platforms

Jupyter, BigQuery, GitHub, Azure, AWS, Collibra, Databricks, PowerBI

Certifications

AWS Cloud Practitioner
Azure Data Engineer
Power BI Data Analyst
Azure AI Fundamentals

Project

Farmgate Dashboard

Built and deployed a data analytics dashboard using Streamlit that showcases data that was extracted from a Jamaican website related to crop prices. The App shows general price trend of crops and a basic prediction model using random forest regression.

<https://lnkd.in/ej6Cuwmz>

Education

Niagara College Tsom

- International Business Management (*May 2023 – Dec 2023*)

University of the West Indies

- Masters in Applied Data Science (*2019 – 2021*)
- Post Graduate Diploma in IT (*2017 – 2018*)
- Bachelor of Science Chemistry and Marine Biology (*2009 -2013*)

Interests

Fitness, Music, Technology, Site Seeing and Traveling.