

Sheryl Mathew

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EXPERIENCE

Operations Support Coordinator - Maximus, New York (Remote), United States Sept 2025 – Present

- Validated healthcare data supporting 30–40 weekly assessments and 200+ monthly interactions for NY OPWDD programs, ensuring data accuracy, completeness, confidentiality, and compliance with OPWDD data governance and HIPAA.
- Translated operational workflows into accurate scheduling, documentation & tracking to support timely assessments.
- Collaborated with care coordinators and administrative stakeholders to validate and align data with service delivery needs.
- Cleaned and managed data using Microsoft Excel, supporting standardized reporting and operational efficiency.
- Ensured consumer-centric coordination by aligning individual needs with the most appropriate assessment resources.
- Skills: Microsoft Excel, Microsoft Outlook, Healthcare Operations, Data Management, HIPAA

Data Analyst - Deloitte, Hyderabad, India Aug 2023 – Feb 2025

- Led exploratory data analysis of large complex financial audit datasets for 20+ global clients, including multiple Fortune 500 companies, identifying patterns, detecting fraud transactions and ensuring data completeness for accurate audits.
- Engineered and automated 35+ analytical workflows migrating legacy SAS processes to Python and SQL in Azure Databricks, which improved performance and increased audit efficiency by 20% and saved 1000+ hours every year.
- Designed and developed 10+ interactive dashboards and visualizations using Tableau and Power BI, after pre-processing the data in PySpark, revealing audit trends, risks and financial patterns, and communicated actionable data insights with both technical and non-technical stakeholders.
- Mentored junior analysts and received a Spot Award for high-quality analysis, attention to detail, and adaptability.
- Skills: Azure Databricks, Python, PySpark, SQL, SAS, PowerBI, Tableau, Microsoft Excel, ETL/ELT, Spark dataframes

VOLUNTEER EXPERIENCE

Data & Metrics Analyst (Volunteer) - Just for Humanity - New York, United States March 2026 – Present

- Developed reusable Python scripts to automate raw data ETL, accelerating reporting cycles and manual data prep time.
- Partnered with leadership to refine KPIs and metric definitions to optimize program effectiveness and donor engagement.
- Built and maintained cross-functional Tableau dashboards for internal use, making core metrics accessible to stakeholders.




PROJECTS

SmartChart – AI Data Consultant

Python, Streamlit, E2B Sandbox, Hugging Face API, Pandas, Matplotlib, Generative AI, Prompt Engineering 




- Developed a AI analytics platform translating natural language into Python code for instant visualization on CSV files.
- Integrated E2B Code Interpreter to execute LLM generated code in secure sandboxes for complex data manipulation.
- Managed iterative chat history and prompt engineering via Streamlit and the Leveraged Qwen-2.5-Coder via Hugging Face API for code synthesis with iterative chat history management in Streamlit.

Paris Olympics Dashboard

Tableau, Databricks, Python, SQL, Data Analytics, Data Visualization, Business Intelligence   

- Implemented an ETL script in Databricks to ingest and transform Olympics data utilizing joins to create a unified dataset.
- Designed interactive Tableau dashboards with sunburst, KPIs, stacked bar, bubble chart, etc. to explore medal distribution.
- Visualized the impact of athlete migration on medal tallies through filters and drill-downs.

Human Activity Recognition

Python, OpenCV, TensorFlow, Scikit-learn, NumPy, Matplotlib, Machine Learning   

- Implemented two Deep Learning models for identifying human actions from video data.
- Evaluated Single-Frame CNN and ConvLSTM architectures, analyzing spatial vs. temporal feature learning.
- Published the work as a public arXiv preprint, providing open access to methodology, experiments, and results.

TECHNICAL SKILLS

Languages: Python, SQL Data: PySpark, Microsoft Azure Databricks, AWS, Tableau, Power BI, MS Excel, Pandas, NumPy, Matplotlib

Web Dev: HTML, CSS Tools: Open AI, GitHub, Git, VS Code, Genesys Cloud, Microsoft Office Suite

Soft Skills: Written and Verbal Communication, Problem-Solving, Time Management, Presentation, Analytical Skills

EDUCATION

Vellore Institute of Technology, India (2019 – 2023)

Bachelor of Technology - Electronics and Computer Engineering, 8.72/10 CGPA

Coursework: Data Structures and Algorithms, Artificial Intelligence & Machine Learning, Relational Databases

CERTIFICATIONS

- AWS Certified Cloud Practitioner (Validity: Jun 2022 - Jun 2025)
- SQL Analytics on Databricks
- Earned the SQL 50 badge on LeetCode by solving 50 MySQL problems covering joins, subqueries, and window functions