

# ANJANA SOWMYA PUVVADA

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## Experience

### New York State Office of Mental Health

October 2024 – Present

*Data Analyst 2*

*Poughkeepsie, NY*

- **Managing 4 simultaneous projects** involving medical data collection, achieving an **80% accuracy rate** in data pipelines.
- Automated **reporting workflows** using **Power BI**, reducing manual effort by **50%** and increasing operational efficiency.
- Transitioned all project processes to the cloud using **Power Automate**, ensuring **scalability** and **accessibility** for data and reporting systems.
- Designed and managed **databases** using **SPSS** and **SQL**, improving data reliability by **30%** and ensuring accurate insights.
- Developed interactive **dashboards** in **Tableau** and **Power BI**, streamlining **reporting efficiency** for leadership and enhancing decision-making.

### Syracuse University

January 2024 – September 2024

*Research Analyst*

*Syracuse, NY*

- **Collaborated with Professor Gary La Point** to design and assess coursework for over **150 students**, analyzing **performance metrics** and feedback to enhance curriculum effectiveness and align with **Lean Six Sigma methodologies**.
- Conducted detailed **analyses of student engagement data** using educational technologies like **Blackboard** and **Canvas**, developing **grading rubrics** and instructional strategies to optimize learning outcomes and improve course delivery.

### National Grid

August 2023 – December 2023

*Business Analyst*

*Syracuse, NY*

- **Analyzed operational delays** from AMI gas modules using **Power BI**, achieving **5 Million dollars in potential savings** through quantitative analysis and optimization of **routes, schedules, and customer revisits**.
- **Managed analytical projects** and collaborated with **cross-functional teams** to integrate consumer panel insights into **Tableau dashboards**, enhancing **marketing strategies, profitability, and decision-making efficiency**.

### Ohio Senior Home Health Care, LLC

May 2023 – August 2023

*Business Analyst Intern*

*Columbus, OH*

- **Conducted comprehensive data analysis** to identify trends in **patient care, billing, and reimbursement**, enhancing **decision-making processes by 70%** and improving **data accuracy by 85%** through **EHR system integration**.
- **Designed Tableau and Power BI dashboards** to deliver **real-time insights into KPIs**, supported **annual budget development**, and provided actionable **financial forecasts for cost control and operational efficiency**.

### Mylan Laboratories Limited

August 2020 – May 2022

*Data Research Analyst*

*Hyderabad, India*

- **Conducted market research and Big Data analysis** to support **strategic decision-making**, driving a **10% increase in market share** for cardiovascular drugs and reducing **operational costs by 15%** through efficiency optimization.
- **Developed and deployed advanced predictive models** using **machine learning** and **Big Data tools** to improve **forecasting accuracy** and enhance **supply chain management**.
- **Designed and implemented interactive dashboards** to provide **real-time visibility into key performance indicators**, accelerating **product development by 20%** by identifying **market trends and customer preferences**.

## Technical Skills

**Programming & Analytical Tools:** Python (NumPy, Pandas, Matplotlib), R, SQL, SPSS, Power Automate, predictive modeling, statistical analysis.

**Data Management & Visualization:** SQL Server, Tableau, Power BI, MicroStrategy, SAP BusinessObjects, Excel (advanced formulas, pivot tables, VBA, macros), Redshift, S3, ETL pipelines, AWS (Glue, Athena), Snowflake.

**Enterprise Applications & Technologies:** ServiceNow, PeopleSoft, Salesforce (Field Service Lightning), QuickSight, REST APIs, ArcGIS, Visual Studio Code (VS Code).

**Project Management & Communication:** Lean Six Sigma, Agile (Scrum, Kanban), JIRA, change management, stakeholder engagement; strong interpersonal and written communication skills with experience in client-facing roles and supporting senior leadership.

## Education

### Syracuse University

August 2022 – May 2024

*Master of Science in Business Analytics*

*Syracuse, NY*

#### Relevant Coursework

- Data Analytics and Machine Learning
- Database Management and Cloud Computing
- Marketing and Financial Analytics
- Business Intelligence and Visualization
- Machine Learning and NLP

## Projects

### E-Commerce Demand Forecasting and Inventory Optimization | Python, AWS, Tableau

December 2023

- Developed a **machine learning pipeline** to forecast product demand for an e-commerce platform using **time-series forecasting (ARIMA, Prophet)** and **ensemble methods (XGBoost, Random Forest)**. Integrated **NLP-based sentiment analysis** to analyze customer reviews with **Python (NLTK, Scikit-learn)**, optimized inventory levels to reduce **stockouts by 15%** and **inventory costs by 20%**, and deployed the solution on **AWS (Lambda, Glue, Redshift)** with **Tableau dashboards** for real-time monitoring and visualization.