

Syanthan Vullingala

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Data Analyst with Master's in Data Science, specializing in advanced data analysis, automation and strategic decision making. Proven expertise in leveraging data to drive efficiency and inform business strategies.

EDUCATION

Dalhousie University

Halifax, Canada

Master of Data Science

Sep 2023 - Dec 2024

Relevant Courses: Data Analysis, Statistical Analysis, Data Science, Machine Learning, Database Management, Web Development, Business Foundations, Digital Transformation.

National Institute of Technology, Hamirpur

Himachal Pradesh, India

Bachelor of Technology, Electronics and Communication Engineering (Honors.)

Aug 2017 - Jul 2021

PROFESSIONAL EXPERIENCE

Government of Nova Scotia

Halifax, Nova Scotia

Finance Data Analyst

Sep 2024 - Present

- Developed Power Automate flows to generate daily invoice payment reports for financial clerks thereby improving the reporting efficiency
- Created Power BI dashboard to track invoice metrics (\$92.3 M), identifying bottlenecks in approvals, assessing turn around times between invoice receipt to payment
- Automated invoice payment processes and identified duplicated invoices using Python, enhancing efficiency and accuracy by 40%
- Conducted budget forecasting for all the cost centers of DCS to support department financial planning.
- Conducted Comprehensive Training sessions for colleagues on Sharepoint, ensuring efficient use and adherence to FOIPOP policy.

Key Skills: Financial Analysis, Forecasting, Power BI, Power Automate, Python Automation, Sharepoint

Larsen & Toubro Limited

Mumbai, India

Data Analyst

Aug 2021 - Jun 2023

- Led software automation projects and implemented data engineering solutions for centralized invoice data, enhancing operational efficiency and accessibility
- Managed a 5 member cross functional team(Finance, Sales, SCM & Taxation) and coordinated with 4 business partners of L&T to launch an automation platform
- Engineered comprehensive Power BI reports for tax returns; facilitated data driven decisions for stakeholders; leading to 30% decrease in financial discrepancies and optimizing tax strategy
- Enhanced data reconciliation processes using SQL Server Integration Services, improving data integrity and efficiency
- Developed and integrated SharePoint team sites and lists for project management and tracking with Power BI

Key Skills: Data Engineering, Software Automation, Financial Data Analysis, Power BI Reporting, Project Management, Data Reconciliation

PROJECTS

Invoice Automation & ERP Data Reconciliation

June 2023

- Consolidated and processed diverse invoice data from multiple sources including email attachments, database tables, and IRIS government data; conducted comprehensive data cleaning and applied transformation techniques to ensure accuracy and standardization.
- Established key performance indicators (KPIs) to monitor process effectiveness, achieving a 25% reduction in processing time and a 30% decrease in financial discrepancies & implemented automation techniques that resulted in a 20% reduction in operational costs.
- Streamlined data processing with SSIS (Integration services) for ETL operations and SSAS (Reporting services) for ERP data reconciliation ensuring data accuracy and reducing discrepancies.
- Implemented a data processing pipeline, managing over 150,000 invoices (\$45M+) and reducing discrepancies, improving stakeholder satisfaction.

NYC 311 Service Optimization [github.com]

April 2024

- Collected and cleaned a dataset with 300,698 entries detailing NYC 311 service requests; conducted extensive exploratory data analysis (EDA) using Python (Pandas, Numpy).
- Applied statistical tests, including Chi-Square tests, to uncover relationships between categorical variables and understand data patterns.
- Created visualizations with Matplotlib and Seaborn to represent data trends, facilitating stakeholder comprehension & compiled analysis into a comprehensive BI report.
- Applied AGILE principles to optimize project workflow, resulting in 30% decrease in development time and 20% increase in code quality, demonstrating robust technical proficiency and analytical acumen.

DiabAnalytica: Predictive Modeling for Type 2 Diabetes [github.com]

May 2024

- Developed a predictive model for all-cause mortality in elderly Type 2 Diabetes patients using machine learning techniques.
- Conducted data collection and preparation on a dataset of 275,190 records, including demographics, clinical biomarkers, and comorbidities.
- Built models using logistic regression, random forest, XGBoost, and decision trees, achieving up to 80% accuracy.
- Designed and prototyped dynamic data models and dashboards in Power BI, facilitating real-time financial reporting.

Certifications

- **Microsoft Certified: Azure AI Fundamentals** - Microsoft, July 2024
- **Generative AI & Large Language Models** - Google, December, 2023
- **Deep Learning** - LinkedIn, November 2023

TECHNICAL PROFICIENCIES

Programming Languages: Python, R, SQL, HTML/CSS, JS, PHP, C++

Tools: Jupyter Notebook, VS Code, Power BI, MSSQL, Sharepoint, Microsoft 365, Tableau, Google Analytics, Git, MySQL

Packages: Pandas, Numpy, Matplotlib, Tensorflow, Keras, Pytorch, Scikit-learn, NLTK

Development & Operations: AGILE, Database Management, Data Analysis and Visualization, Project Management

Soft Skills: Communication, Problem-solving, Team Management, Customer Communication, Consulting