

AYUSH THONIPARAMBIL SASEENDRAN

Phone: (315) 760-7234 | Email: athonipa@syr.edu | LinkedIn: ayushsaseendran

EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY <i>Master of Science in Applied Data Science</i> Relevant Coursework: Data Science, DBMS, Applied Machine Learning, Data Warehouse, Big Data Management, NLP, Cloud Management	Aug 2023 – May 2025 GPA: 3.9/4
University of Mumbai, Vidyalankar Institute of Technology, Mumbai, India <i>Bachelor of Engineering in Electronics and Telecommunication Engineering</i>	Jul 2015 – May 2019 GPA: 3.0/4

EXPERIENCE

Data Science Intern, BioMarin Pharmaceutical Inc, Novato, CA • Directed transfer of structured data from Excel sheets into a relational SQL database leveraging SSMS, increasing data management efficiency by 40%. • Conducted logical and physical data modeling, formulating, and building required database structure, including ER diagrams and comprehensive documentation, leading to a 25% improvement in query response time. • Implemented audit triggers on tables to log changes, ensuring data integrity and traceability, resulting in a 20% increase in data accuracy. • Designed and executed front-end UI in PowerApps, enabling users to log in, browse, and make changes using various galleries and forms, improving user engagement, and achieving a 35% increase in user satisfaction.	May 2024 – Nov 2024
Data Engineering Analyst, Accenture, Mumbai, India • Constructed ETL programs leveraging Informatica, optimizing workflows with shell scripts to boost processing speed by 30%. • Employed Informatica parameter files to establish mapping variables, workflow variables, FTP, and relational connections. Executed unit testing at ETL stages, reducing errors by 20%, and streamlined team code reviews for efficiency. • Demonstrated proficiency in database design and data modeling, showcasing expertise in boosting Oracle database performance through strategic index implementation and creation of materialized views. • Cooperated closely with 4+ subject matter experts to assist in designing and building solutions for a variety of applications, including batch processing, various migration activities, OLTP, OLAP, and data warehouse architecture. • Collaborated with product owners and 5 members of the development team to identify requirements for new features and user stories in both new or revised applications and extensive/complex development projects. • Led development of critical ETL programs, increasing team efficiency and optimizing workflows for a 15% improvement in project timelines. • Spearheaded implementation of automation scripts, reducing data processing time by 20% and enabling the team to focus on strategic aspects of project development.	Jan 2020 – Aug 2023

PROJECTS

Election Contribution Analysis — Snowflake — dbt — Power BI • Developed a comprehensive data warehousing solution using Snowflake for analyzing 2007-2008 election contributions, improving query performance by 50% and ensuring efficient data handling. • Formulated and implemented Power BI dashboards and reports on top of fact and dimension tables created with dbt, translating business requirements into a logical data model, and providing insightful data visualization.	Jan 2024 – May 2024
Energy Consumption Analysis and Forecasting — R Programming • Conducted analysis to forecast the impact of rising temperatures on electricity demand, merging static consumption and weather data, achieving 90% prediction accuracy, and aiding efficient energy management. • Built a linear regression model with one-hot encoded categorical variables and created an interactive Shiny web app to visualize key insights, processing 50,000+ data points and enhancing user engagement.	Aug 2023 – Dec 2023
Spotify Data Analysis — Python • Developed a versatile Python program using Spotipy, NLTK, and Matplotlib for in-depth Spotify data analysis, including sentiment and emotion analysis on song lyrics. • Proposed three approaches for enhancing danceability, valence, and overall audio features, resulting in the creation of a new playlist, <i>Party Vibes</i> .	Aug 2023 – Dec 2023

SKILLS

• Data Engineering & ETL: Informatica PowerCenter, Informatica MDM, Apache Airflow, Junit, Cucumber, Hadoop, HDFS, Erwin Data Modeling, Data migration from IBM DB2
• Programming & Development: Python, R, SQL, Unix Shell Scripting, Git, Docker, PowerApps, Scala, Astronomer DAGs
• Databases & Cloud Technologies: PostgreSQL, MySQL, Oracle 12C, Azure Data Studio, Snowflake, dbt, AWS (Lambda, Step Function, SQS, SNS, API Gateway), Google Cloud, Redshift, Hive
• Big Data & Analytics: Databricks, Apache Spark, Pyspark, Scala, Power BI, Tableau, MS Office Excel, Developing enterprise data pipelines, ETL Batch Job Scheduling and Monitoring
• UI & Workflow Automation: Hands-on experience with UI frameworks, Workflow automation with Apache Airflow, Version Control Management tools like Git/Bitbucket, Jira for roadmap and goal tracking

CERTIFICATIONS

• AWS Certified Solutions Architect – Associate (In Progress)
• Microsoft Certified: Azure Fundamentals