AYUSH THONIPARAMBIL SASEENDRAN

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EDUCATION

Syracuse University, School of Information Studies, Syracuse, NY — August 2023 - May 2025
M.S in Applied Data Science — GPA:4/4
Relevant Coursework: Introduction to Data Science | DBMS | Applied Machine Learning | Data Warehouse.

University of Mumbai, Vidyalankar Institute of Technology, Mumbai, India — July 2015 - May 2019
B.E. Electronics and Telecommunication Engineering — GPA:3/4

EXPERIENCE

Data Engineering Analyst, Accenture Solutions, Mumbai, India — January 2020 - August 2023
- Developed ETL programs using informatica and created shell scripts to fine tune the ETL flow of informatica workflows.
- Proficiently employed Informatica parameter files to establish mapping variables, workflow variables, FTP connections, and relational connections. Executed thorough unit testing at various ETL stages, actively engaging in team code reviews.
- Demonstrated proficiency in database design and data modeling, showcasing expertise in enhancing Oracle database performance through strategic index implementation and the creation of materialized views.
- Cooperated closely with other 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 fellow members of the development team to identify the requirements for new features and user stories in both new or revised applications and extensive/complex development projects.
- Led the development of critical ETL programs using Informatica, enhancing team efficiency and optimizing workflows for a 15% improvement in project timelines.
- Spearheaded the implementation of automation scripts, reducing data processing time by 20% and enabling the team to focus on strategic aspects of project development.
- Played a crucial role in understanding user perspectives and ensuring that data solutions aligned seamlessly with end-user expectations.

PROJECTS

Analyzed Spotify Data to comprehend user's music preferences | Python — August 2023 - December 2023
- Developed a versatile Python program utilizing Spotipy, NLTK, and Matplotlib modules for in-depth Spotify data analysis.
- Conducted sentiment analysis and emotion analysis using NLTK and NRC Lexicon on the lyrics of the songs.
- Applied statistical measures and proposed three approaches for enhancing danceability, valence, and overall audio features.
- Crafted a new playlist, "Party Vibes," excelling in danceability, valence, and aggregate score.

Energy Consumption Analysis and Forecasting | R programming — August 2023 - December 2023
- Conducted a comprehensive analysis to understand and forecast the impact of rising temperatures on electricity demand.
- Constructed a robust data preparation pipeline, merging house static, electricity consumption, and weather datasets for comprehensive data analysis.
- Built a highly accurate linear regression model with categorical variables, achieving an adjusted R-squared value of 0.992.
- Created an interactive Shiny web application leveraging R programming for visualizing and communicating key insights from the energy consumption analysis, enhancing user engagement, and understanding of complex data patterns.

Travel Management System | SQL | Azure Data Studio | PowerApps — August 2023 - December 2023
- Developed a Travel Management System, utilizing SQL databases for backend data storage, with a focus on database normalization to ensure optimal performance and data integrity.
- Executed comprehensive ER modelling, defining entities, attributes, and relationships, and implemented a logical data model to translate business requirements into an efficient database structure.
- Created and fine-tuned SQL scripts for database setup and management, including up/down scripts for seamless deployment and version control.
- Implemented advanced features in PowerApps, such as dynamic user interfaces, real-time data synchronization, and data validation rules, ensuring a robust and user-friendly frontend experience.

TECHNICAL SKILLS

ETL Tools: Informatica PowerCenter, Informatica MDM.
Programming Languages: Python, R, SQL, Unix Shell Scripting.
Database Management: PostgreSQL, MySQL, Oracle 12C Database, Docker, Azure Data Studio.
Data Visualization tools: Power BI, Tableau, MS Office Excel