

SAHIL MAHENDRA MODY

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PROFESSIONAL EXPERIENCE

C2S Technologies Inc., Bellevue, WA – Data Engineer

November 2023 – Present

Project: Fast Data Replication

Client: Taylor Farms

- Designed robust data replication processes for 18 tables containing 4M+ records, from on-premises SQL Server to Azure SQL Server using SQL Server Integration Services (SSIS)
- Utilized Azure Synapse Analytics for initial loading of all tables and integrated Change Tracking to identify and synchronize only the modified records, minimizing data transfer overhead and ensuring efficient use of resources
- Implemented real-time replication of change tracking data to Azure SQL Server through SSIS pipelines, ensuring continuous synchronization at 5-minute intervals for up-to-date information
- Developed an Azure Logic App pipeline to conduct data validation between source and destination tables, facilitating automated email notifications for any identified discrepancies

VTeamLabs, Redmond, WA – Data Analyst

August 2023 – October 2023

- Engaged in querying and debugging SQL scripts including base tables, stored procedures, Functions, and views
- Collaborated with teams to implement database requests, create data pipelines, and maintain linked services and datasets in Azure Data Factory
- Led data cleaning, transformation, and visualization using Power Query, DAX, and Power BI, generating visually appealing reports and dashboards that empowered decision-making and improved user engagement

VTeamLabs, Redmond, WA – Data Analyst Intern

September 2022 – December 2022

- Identified data inconsistencies and errors in sales reports using SQL queries, leading to a 15% improvement in data accuracy and streamlined reporting processes
- Created 8 Power BI dashboards for corporate clients to project Return on Investment, monitor accounts growth, new customer trends, and monthly revenue data resulting in 93% customer retention

Trivia Softwares, Mumbai, India – Data Analyst Intern

December 2019 – February 2020

- Analyzed 1000+ students historical data using Excel spreadsheet, identified students' academic performance trends and crafted quarterly reports for the 9 instructors getting visibility into cohorts' performance
- Presented analytics and findings of students' and instructors' performance using graphs to CEO and charts and identifying additional training & development opportunities for 249 underperforming students and 2 teachers

TECHNICAL SKILLS

- Programming Languages:** Python, SQL, DAX, R Programming, JavaScript (ES6+)
- Azure Cloud Services:** Synapse Analytics, Data Factory, Data Bricks, DevOps, Function App, Logic App
- Databases & Tools:** SQL Server, MySQL, PostgreSQL, SSIS, MongoDB, Excel, Tableau, Power BI, GIT

ACADEMIC PROJECTS

HR Attrition Analysis – SSIS, Azure Data Factory, Azure Data Bricks, Azure Synapse Analytics, Power BI October 2023

- Designed and implemented a comprehensive data ingestion pipeline using SSIS, Azure Data Factory, and Azure Synapse Analytics to extract, transform, and load (ETL) data for attrition analysis
- Employed Data Bricks for data transformations and created 10 interactive visualizations using Power BI highlighting areas of employee demographics, job satisfaction, compensation factors, and attrition trends

Financial Complaint Analysis – Tableau ([Dashboard](#))

May 2022

- Optimized 25% efficiency by automating the manual process of tracking 75k+ financial complaints with the implementation of the Tableau dashboard and highlighting areas of improvement, and customer dissatisfaction
- Reduced complaint investigation time by 25% through utilization of real-time dashboard data, allowing the team to quickly identify the root cause of the issue

PUBLICATIONS AND CERTIFICATIONS

- Authored and published a paper on Sentimental Analysis of USA Election Slogans in International Journal of Engineering Research and Applications in (Series-IV) in September 2020, Volume 10, Issue 9, ISSN: 2248-962
- Certificates:** Data Science using Python by University of Michigan, Data Analytics Essentials by Cisco

EDUCATION

M.S. Computer Science, Stevens Institute of Technology (CGPA: 3.83/4)

May 2023

B.E. Information Technology, University of Mumbai (CGPA: 3.42/4)

June 2021