

Sahil Mahendra Mody

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PROFESSIONAL EXPERIENCE

Taylor Farms, Data Engineer

Nov 2023 – Present | Bellevue, USA

Project: Fast Data Replication (Phase 2)

- Drafted and operationalized an Azure cloud architecture blueprint for real-time data integration between On-Premise & cloud-based Dynamics 365 F&O; projected to generate an additional \$15M annually.
- Developed data warehouse solution on Databricks using Azure cloud services by consolidating multiple data sources including real-time streaming data; it is the foundation for data & AI strategy roadmap.
- Implemented data transformation logic to perform DML operations using change tracking columns and configured a continuous DLT pipeline to automate data processing and synchronization between bronze and silver catalogs.
- Developed and scheduled a job to run every 5 minutes using Apache Spark and SQL to convert three traditional stored procedures into Databricks (DBX) format, automating the export of processed data in CSV format to Digital Spaces.
- Conducted data validation checks and monitoring to maintain high data quality throughout the replication process.

Project: Fast Data Replication (Phase 1)

- Designed robust data replication processes for 18 tables containing 2B+ records, from on-premises SQL Server to Azure SQL Server using Azure Synapse Analytics.
- 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.
- Designed an automated system (CI/CD pipeline) using GitHub Actions to manage Azure SQL Server across development, testing, and production stages.

VTeamLabs, Data Analyst

Aug 2023 – Oct 2023 | Redmond, USA

- Collaborated with teams to implement database requests, create data pipelines, and maintain linked services 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, Data Analyst Intern

Sep 2022 – Dec 2022 | Redmond, USA

- Analyzed 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, Data Analyst Intern

Dec 2019 – Feb 2020 | Mumbai, India

- Analyzed 1000+ students historical data using an 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 identified additional training & development opportunities for 249 underperforming students and 2 teachers.

TECHNICAL SKILLS

Programming Languages: Python, SQL, PySpark, DAX, R Programming, JavaScript (ES6+), HTML, CSS, React.js

Azure Cloud Services: Data Bricks, Synapse Analytics, Data Factory, DevOps, Functions, Logic App, EventHub

Databases and Tools: Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Azure SQL Server, SSIS, Excel, Tableau, Power BI, GIT, Power Apps, Postman, Dynamics D365 F&O

ACADEMIC EXPERIENCE

HR Attrition Analysis, Azure Data Factory, Azure Data Bricks, Azure Synapse Analytics, Power BI

- Designed and implemented an ETL pipeline with Azure Data Factory and Databricks, creating 5 interactive Power BI visualizations to analyze employee demographics, job satisfaction, compensation factors, and attrition trends.

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
- Databricks Certified Data Engineer Associate

EDUCATION

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

May 2023 | Hoboken, USA

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

Jun 2021 | Mumbai, India