

Sourabh Muchhal
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11.5+ years of experience in **Cloud Data Warehousing (DW)**, **On-Premises Data Solutions**, and **Business Intelligence (BI)** tool development. Expert in **data solution design, implementation, data process optimization, and operational efficiency**. Confident in delivering exceptional results through strategic architecture and technical proficiency.

Professional Summary

- Adept at developing and implementing data pipelines to manage extensive data sets, employing tools like **Snowflake, DBT, Fivetran, Matillion, and SSIS**.
- Certified and Expertise in **Snowflake** Cloud DW and data processing of huge volumes of incremental data.
- Led a team of Data Engineers in refactoring the application architecture and implementing the Big Data App solution, utilizing Agile methodology
- Design and execute **SQL queries** to perform data integration and transformation, ensuring validated results prior to implementation.
- Expertise in Microsoft Business Intelligence Technologies like SSIS (SQL Server Integration Services), SSRS (SQL Server Reporting Services), and SSAS (SQL Server Analysis Services).
- Expertise in data visualization tools, Tableau.
- Designed and implemented complex data pipelines using dbt to efficiently ingest and transform data from multiple sources into a Data Lake and in Snowflake.
- Know about designing and implementing data integration and transformation using **Python** solutions for different business use cases.
- Have working knowledge of **Airflow**.
- Good knowledge of CI/CD pipelines in GitHub / Azure DevOps to automate development implementation with dbt, Matillion, Fivetran, and Prefect, enabling faster and more reliable deployment of data pipelines.
- Experience with project management tools like JIRA and Visual Studio Team Services (VSTS/TFS).
- Experience working closely with BA teams for data modeling and designing architecture.
- Proficient in breaking down tasks into micro-levels, setting priorities, and ensuring strong coordination among various teams.
- Competent in analyzing and interpreting unique problems by simplifying and learning from project experience, thinking big and logically to find the right solutions.
- Enthusiastic in learning new technologies and self-motivated.
- Recognized with multiple awards for significant contributions, including the **Pinnacle Award, Eureka Force Award, Key Player Award, Star Crew Awards, TITAN Award, Limelight Award, and Employee of the Month**.
- Designed and delivered high-impact solutions drawing on extensive experience in software development and solution architecture, specifically focusing on the implementation and configuration of **marketing automation platforms**.

Core Competencies

Snowflake SQL	dbt Python	ADF SSIS	ADL SSRS	Databricks SSAS	Tableau ELT/ETL
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Certifications

- ❖ SnowPro Core Certification – Snowflake
- ❖ Hands-On Essentials Data Warehouse – Snowflake

Awards and Recognition

- **Limelight award** in Kipi.ai India Pvt. Ltd., Energy for outstanding individual contribution to DWH projects.
- **TITAN Award** (04/2014) at Xoriant India Pvt. Ltd. for leading teams to successful delivery.
- **Employee of the Month** (07/2015) at Diaspark Infotech Pvt. Ltd. for excellent development work.

Organizational Experience

- Architected and implemented scalable and high-performance data warehousing solutions for clients using Snowflake, resulting in **30% faster query performance** and a **50% reduction** in overall data processing time.
- Designed, implemented, and optimized efficient data pipelines using Snowflake's features, such as COPY INTO and Snowpipe, ensuring the smooth integration of data from multiple sources, reducing **data loading time by 25%**.
- Data transformation pipelines using **dbt (Data Build Tool)**, SQL, and modern data stack technologies.
- Monitored and optimized Snowflake performance, identifying and resolving bottlenecks.
- Led the implementation of Azure Data Factory pipelines for data integration and transformation, resulting in a **30% reduction in data processing time**.
- Created visuals in Tableau, such as pie charts, charts, trends, donuts, butterfly charts, and many more charts, for the best analytic decisions. Worked on visualization performance optimization and tuning.
- Led a team of data engineers in the design and deployment of Snowflake data lakes, enabling clients to store and analyze vast volumes of structured and semi-structured data seamlessly.
- Data cleaning of Flat files and CSV files in Python using Pandas and NumPy libraries and exporting into the database.
- Using the Agile approach, participating in Scrum meetings, and developing user stories, including acceptance criteria.
- Interact with business to gather requirements, prepare functional specifications, and navigate across different functional domains and low-level design documents.
- Conducted code reviews and mentored junior team members on best practices in dbt.
- **Solution Architecture and Software Development:** Proven background in designing and developing technical solutions, with specialized expertise in implementing and optimizing **marketing automation platforms (MAPs)**.

ORGANIZATIONAL PROJECT

Organization:	kipi.ai India Pvt. Ltd.
Role:	Solution Architect
Project:	Healthcare Project
Period:	Dec'22 – Present
Project Description:	Working on the migration of on-prem to cloud DW (Snowflake) as well as their new features-related development work.
Project stream/tools:	Snowflake, dbt, Fivetran, Matillion, SQL Server 2012, SSIS, Tableau, Python, SQL
 Organization:	 Xoriant India Private Ltd.
Role:	Senior Software Engineer
Project 1:	MED
Period:	Aug'22 – Dec'22
Project Description:	Worked on the development of their feature-related user stories.
Project stream/tools:	ADF, ADLS, Azure Databricks, Python, SSIS, Power BI, SQL, SQL Server 2012
 Project 2:	 Xorpay (Product)
Period:	Oct'20 – June'22

Project Description:	Xoriant's Payment Accelerator, where Xoriant wants to provide a framework to banks to get the payment messages from banks and convert them to Swift-compliant ISO formatted XML messages.
Project stream/tools:	Azure Databricks, MySQL, PostgreSQL, SSIS, Tableau, AWS, SQL, SQL Server 2012
Organization:	Synerzip Softech Pvt. Ltd.
Role:	Senior Software Engineer
Project:	Alchemy Master (POC)
Period:	Jan'20 – Oct'20
Project Description:	Alchemy Master is a project in the education domain. The company creates employee training programs like security training, skill training, etc.
Project stream/tools:	Snowflake, MySQL, PostgreSQL, Python, Redshift, AWS, SQL, SQL Server 2012
Organization:	Tieto India Private Ltd.
Role:	Software Engineer
Project:	Pulse (HealthCare Domain, Product)
Period:	Aug'18 – Oct'19
Project Description:	This product provides healthcare solutions platforms with a focus on patient-centric and innovative technology for healthcare and pharmacy. This solution includes a predictive & action-oriented business intelligence platform, which also has outpatient pharmacy solutions and Pharma, Payer, and inventory management solutions.
Project stream/tools:	Snowflake, SQL Server 2012, AWS, Symmetric DS, SSIS (ETL), Tableau, Shell Scripting
Organization:	Infosys Ltd.
Role:	Technology Analyst
Project:	Travelers International (Insurance Domain)
Period:	Jul'16 – Aug'18
Project Description:	This project was to provide solutions for various types of insurance, such as cars, homes, condos, renters, etc. Policy data was bulk-loaded into the system with the help of SSIS and SQL queries.
Project stream/tools:	SQL, SQL Server 2012, SSIS (ETL), SSRS, SSAS
Organization:	DIASPARK Infotech Pvt. Ltd.
Role:	Software Engineer
Project:	DIASPARK Energy (Product)
Period:	Nov'13 – May'16
Project Description:	DIASPARK Energy is PV (Power Voltage) Energy Management Software providing system performance information, design analysis, and asset management.
Project stream/tools:	SQL, SQL Server 2012, SSIS (ETL), SSRS

ACADEMIC DETAILS

- B.E. (I.T.) from Chameli Devi Group of Institutions, Indore, R.G.P.V, Bhopal in 2012; scored 70%
- 12th from Shree Kasera Bazar Vidhya Niketan School, Indore, M.P. Board in 2008; scored 65%
- 10th from Shree Kasera Bazar Vidhya Niketan School, Indore, M.P. Board in 2006; scored 72%