
Name: Rohit Brar

Happiest Minds Email id: rohit.brar@happiestminds.com

Primary Skills: SQL, Python, ETL Processes, Data Warehousing, AWS Glue, AWS Quick sight for Analytics, AWS Step Functions, AWS ECS, AWS Lambda, Snowflake, DBT, AWS Athena, Databricks, Data Modeling, Data Visualization, Database Management, and Cloud Data Integration with AWS, Docker, Terraform.

Experience Summary: Experienced Data Engineer with 5.7 years of expertise in SQL, Data Warehousing (DWH), DBT- Data Build Tool, ETL, and advanced analytics. Proficient in AWS, with hands-on experience in AWS Glue, AWS Quick sight for Analytics and Databricks for seamless data integration, processing, and reporting. Skilled in transforming raw data into actionable insights through complex data extraction, transformation, and visualization. Expert in automating workflows and optimizing data pipelines performance. Experience with Containerized services using docker. Adept at aligning data strategies with business goals through cross-functional collaboration, with a strong focus on industry best practices to drive innovation and efficiency.

Project 1: Automation Data Extraction with serverless compute **(January 2023 – November 2024)**

1. **Description of the Project:** Designed and implemented an automated data extraction workflow leveraging AWS services and Data Build Tool (DBT) to streamline and optimize data processing. The project used AWS Step Functions to orchestrate the entire process, ensuring efficient task coordination and fault tolerance. AWS Faregate was employed to run containerized tasks without the need to manage servers, enhancing scalability. Used AWS Lambda for real-time task triggers and transformations, AWS Glue for data cataloging, and stored the processed data in AWS S3 for secure, accessible storage and analytics. The data was then loaded into Snowflake for efficient querying and analytics. Additionally, DBT was integrated for advanced data transformation, modeling, and testing within the data pipeline. This solution significantly improved data extraction efficiency, reduced manual intervention, and provided a scalable, serverless architecture for data handling.
2. **Role:** Data Engineer
3. **Technical tools:** ECS, ECR, Step Functions, MySQL, DBT, Snowflake, Spark, Python, AWS Glue, S3, Lambda, EC2, Docker, Terraform, Quick sight.

Project 2: Data Migration Project **(July 2021 – December 2022)**

1. **Description of the Project:** Extracted data from multiple sources based on client requirements, ensuring accuracy and consistency across datasets. Analyzed the schema and requirements of the target

application to fully understand its structure, facilitating a smooth and efficient migration process. Successfully migrated the extracted data to various applications. Mapped data points from the old to the new application and created a data dictionary to ensure clarity. The processed data was loaded into Snowflake, enabling fast, scalable querying and analytics for the target applications, leveraging DBT for advanced data transformations, modeling, and testing to ensure data quality throughout the process. Completed over 100 data extractions and migrated more than 50 clients to the new application, optimizing data accuracy, minimizing downtime, and enhancing overall performance.

2. **Role:** Data Engineer
3. **Technical tools:** MySQL, DBT, Snowflake, SSMS, PostgreSQL, S3, EC2, SFTP.

Project 3: Analytics Project **(July 2019 – June 2021)**

1. **Description of the Project:** Developed a robust data pipeline that utilizes AWS Glue crawlers to extract data from an SQL database. Implemented necessary transformations using PySpark to clean, enrich, and process the data. The transformed data was then stored in AWS S3 for scalability and secure storage. The processed data was then loaded into Snowflake for fast querying and analytics. Integrated DBT to apply advanced data transformations, modeling, and testing, ensuring data quality and consistency across the pipeline. Finally, integrated AWS Quick Sight to visualize the data, enabling real-time insights and reporting for stakeholders. This end-to-end solution provided a scalable, efficient, and robust architecture for data processing and analytics.
2. **Role:** Data Engineer
3. **Technical tools:** Python, Pyspark, DBT, Snowflake, MySQL, AWS Glue, S3, Quicksight, Snowflake, Athena, RDS.

Technical Skills

Database Systems

- **Microsoft SQL Server**, **MySQL**, **PostgreSQL, AWS RDS**

Subject Area Expertise

- **Data Engineer, Data Warehousing (DWH), Data Build Tool (DBT), Data Visualization, Data Governance, Data Lineage.**

Cloud & Big Data Platforms

- **AWS (Proficient)**:
  - **AWS Glue**: Expertise in building, scheduling, and monitoring ETL/ELT pipelines.
  - **Snowflake:** Extensive hands-on experience in data warehousing and SQL-based analytics.

- **DBT:** Extensive hands-on experience in transforming data within the data warehouse.
- **Databricks**: Advanced experience with data transformations using Python, Spark, and SQL.
- **AWS ECS:** Expertise in containerized service to run a complete application on containers
- **AWS S3**: Skilled in working with hierarchical and large-scale datasets.
- **AWS Step Functions**: Automation of data processes and workflows.
- **AWS CloudWatch** Expertise in performance tracking, monitoring, and troubleshooting.

Languages & Technologies

- **Python** (with Py spark for distributed data processing)
- **SQL** (advanced querying, performance tuning, data modeling)
- **DBT** (transforming data within the data warehouse)
- **AWS Proficiency**: Expertise in managing data infrastructure and reports on **AWS.** Creating and maintaining complete data pipelines.