ROHIT MITTAL
DATA ENGINEER
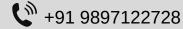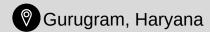
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EDUCATION

Thapar Institute of Engineering and Technology
JUL 2018 - JUL 2022
BACHELOR OF ENGINEERING
CGPA 8.29/10

TECHNICAL SKILLS

PROGRAMMING LANGUAGES:

Python, Java

DATABASES:

MySQL, Cassandra

DATA WAREHOUSES:

Hive, AWS Redshift

MESSAGE QUEUE

Confluent Kafka

DISTRIBUTED COMPUTATION

FRAMEWORK:

Apache Hadoop, Apache Spark

DASHBOARDING AND

MONITORING TOOLS:

AWS Quicksight

WORKFLOW MANAGEMENT:

Airflow

AWS SERVICES:

S3, Lambda, DynamoDB ,

Redshift, Athena, Glue, SNS,

SQS, Kinesis, StepFunction

WORK EXPERIENCE

DELOITTE INDIA - ANALYST
JAN 2023 - PRESENT
Reinforcement Learning Through Human Feedback

- Worked as a **Java annotator** in various streams such as SOF, CW – Quality Study, Reward Modeling, LeetCode, Code Quality for a project based on RLHF.
- Contributed to the refinement of a **no-code generative AI** platform for a large American MNC.

SNAPDEAL - DATA ANALYST INTERN
JAN 2022 - JUL 2022

- Designed and implemented the data and reporting infrastructure from scratch using SQL, providing real-time insights into product performance and user funnels, improving the data accuracy by 30%.
- Partnered directly with the product team to create and manage the different **metrics** across the app using SQL and Google Sheets, leading to a 25% increase in actionable insights.
- Developed comprehensive **root cause analysis reports** to address problems with **customer conversion**, uncovering key insights that boosted conversion rates by 15%.
- Identified procedural areas of improvement through customer data analysis.

PROJECTS

Movie Data Analysis

- Developed an **end-to-end data pipeline** leveraging AWS services: uploaded data to **S3**, utilized **AWS Glue Crawler** and **Glue Catalog** for metadata creation.
- Implemented data transformation using **AWS Glue Catalog Data Quality** and **Glue Low Code ETL**, ensuring high-quality data processing.
- Automated **data loading** to **AWS Redshift**, enhancing data accessibility and query performance for analytical purposes.
- Set up alerts and notifications using **Amazon EventBridge** and **SNS** topics, providing real-time updates on data pipeline events and anomalies.

Daily Airline Data Ingestion

- **Automated daily data ingestion pipeline** for flight data from S3 to Redshift, ensuring **timely** and **efficient data updates**.
- Configure Amazon EventBridge to **detect new files** in S3 and **trigger AWS Step Functions**, **orchestrating** the entire **ETL process**.
- Utilized AWS Glue Crawler and Glue ETL jobs to process and transform data, **maintaining accurate** and **up-to-date metadata** and data quality.
- Implemented a **notification system** using SNS topics to provide **real-time alerts** on job success or failure, **enhancing monitoring** and **operational efficiency**.

ECom Store Data Processing

- Developed and managed two data streams, Orders and Payments, using **pub-sub topics** for **real-time data distribution**.
- Created a **denormalized table** in **Cassandra** combining attributes from both the Orders and the Payments tables, enhancing **data integration** and **retrieval**.
- Implemented Python consumer code to **process and merge data streams**, ensuring **efficient data consumption** and **transformation**.
- Handled **data integrity issues** by routing unmatched payments to a **Dead Letter Queue (DLQ)** topic, maintaining **data accuracy** and **reliability**.

ACHIEVEMENTS

- Recognized as a Gold Batch member and **Super Annotator** due to consistently delivering high-quality work for a span of 6 months.
- Recognized as a **star performer** during my internship for creating daily user data reports, which led to the efficient execution of sales and helped increase customer engagement.