

# PREET PATIDAR

## DATA ENGINEER

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📍 Indore ,Madhya Pradesh

### EDUCATION

#### MEDI-CAPS UNIVERSITY INDORE

JUL 2022 - PRESENT  
B.TECH IN COMPUTER SCIENCE  
ENGINEERING

### TECHNICAL SKILLS

#### PROGRAMMING LANGUAGES

C++, C,Python

#### BACKEND FRAMEWORKS

Django

#### DATABASES

MySQL, MongoDB, Cassandra

#### BIG DATA FRAMEWORKS

Hadoop, Spark, Hive, Kafka,  
BigQuery

#### DASHBOARDING TOOL

Quicksight

#### SCHEDULERS & AWS

Airflow, S3, EMR, Glue, Lambda,  
Cloudwatch ,DynamoDB,Athena

### PROJECTS -

#### 1. Quality Movie Data Analysis

- Built an end-to-end data analysis pipeline to extract insights from public movie datasets (IMDB, TMDB, Box Office Mojo).
- Performed deep cleaning, transformation, and schema alignment using PySpark and AWS Glue for scalable ETL.
- Designed a star schema on Amazon Redshift for efficient querying, with Facts capturing revenue and ratings, and Dimensions covering genre, actors, and release timelines.
- Leveraged AWS Athena and QuickSight to enable business teams to self-serve analytics dashboards for content acquisition and trend forecasting.
- Optimized long-running queries using partitioning and distribution strategies; reduced report latency by 70%.

#### 2. Real-Time Data Ingest (MySQL → Kafka → Spark → Snowflake)

- Architected a real-time data pipeline to decouple production MySQL from reporting workloads.
- Implemented Kafka producers to stream CDC (Change Data Capture) events using Debezium, and Spark Structured Streaming jobs to process high-volume transactional data with low latency.
- Transformed and cleansed data in Spark before loading into Snowflake using the Snowflake Connector for Apache Spark.
- Ensured schema evolution and data integrity with custom metadata tracking and alerting logic.
- Achieved sub-minute end-to-end latency, allowing stakeholders to access near real-time metrics via Snowflake dashboards.

### ACHIEVEMENTS

- ☐ JEE Mains 2022 – Cleared with 82.3 Percentile
- ☐ Solved 250+ Questions on LeetCode
- ☐ 4★ C++ Coder on HackerRank