Bhargav Patel
Data Engineer | Brookline, MA
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## SUMMARY

Detail oriented data engineer specializing in scalable warehousing, streaming ETL, and analytics enab
Proven track record optimizing ingestion throughput, query latency, and data reliability for cross-functio

## EDUCATION

Boston University â  M.S. Applied Data Analytics (4.0 GPA), Jan 2025
Navrachana University â  B.S. Information Technology (4.0 GPA), Aug 2023

## SKILLS

Data Modeling: logical/physical design, star & snowflake schemas, columnar storage (Parquet/ORC)
ETL Engineering: high-throughput ingestion, CDC patterns, Airflow DAG orchestration
Optimization: SQL tuning, execution plan analysis, materialized views, advanced indexing
Distributed Processing: Apache Spark, Presto, sharding, caching strategies
Data Quality: automated testing, anomaly detection, custom observability dashboards
Programming & Tools: Python, SQL, Java, Docker, Kubernetes, Terraform

## CERTIFICATIONS

Microsoft Azure Data Scientist Associate â  Dec 2024
Google Data Analytics â  Nov 2024

## EXPERIENCE

Techgrains Technologies â  Data Engineering Intern | Feb 2023 â  Aug 2023
â¢ Designed parallel, fault-tolerant ETL pipelines with Python, Airflow, and Spark to lift throughput by 3
â¢ Modeled normalized and denormalized schemas balancing integrity with analytics performance.
â¢ Tuned SQL with materialized views and bitmap/bloom indexes, cutting query latency up to 40%.
â¢ Combined Kafka streaming with Spark batch jobs and Debezium CDC for consistent real-time upda
â¢ Built Looker and Grafana dashboards monitoring freshness, quality checks, and pipeline SLAs.

## PROJECTS

Real-Time E-Commerce Analytics Pipeline â  streaming ingestion with Kafka, Airflow, Spark, and mate
Urban Data Warehouse for Spatial Analytics â  Spark-based processing with regional/time partitioning
Data Observability Platform â  CDC-driven monitoring, anomaly detection, and dashboards enabling p