KUSH PATEL

Analytics Engineer | SQL · dbt · Data Modelling · Microsoft Fabric · Databricks · Power BI

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kushpatel29.github.io

Open to remote and relocation across Canada · Legally eligible to work in Canada · Available immediately

SUMMARY

- Analytics professional with 4+ years across operations and finance. Built the star-schema data mart, Power BI semantic layer and source reconciliation as sole analyst at a perishable-goods distributor.
- Public analytics-engineering work adds dbt contracts, unit tests, incremental models, SCD2 and governed metrics, executed on DuckDB, Databricks and Snowflake. dbt and Airflow evidence is project-based, separate from paid Azure/Fabric delivery.

TECHNICAL SKILLS

Modelling: SQL/T-SQL, Kimball star schemas, conformed dimensions, SCD Type 1/2, medallion layers; dbt contracts, unit/data tests, snapshots, incrementals, exposures and downstream impact.

Metrics & quality: MetricFlow; Power BI DAX, semantic models, RLS/OLS, TMDL/PBIR; metric grain/owner definitions, reconciliation, freshness, quarantine/replay and pytest.

Paid platform scope: Microsoft Fabric, Azure Data Factory/Synapse, SQL Server, SSIS/SSRS, SQL, PySpark, Python/pandas and REST ingestion.

Project execution: DuckDB, Databricks SQL/Unity Catalog, Snowflake dbt/Streams/Tasks/Snowpark/RBAC; AWS Athena/S3/Glue; Airflow nightly scheduler in CI, GitHub Actions and Docker. Personal free/trial accounts, not enterprise operating tenure.

PROFESSIONAL EXPERIENCE

Two Rivers Specialty Meats

Dec 2023 – Jun 2026 · North Vancouver, BC

Data Analyst — Operations, Logistics & Enterprise Reporting

- Designed the enterprise data mart with star schemas, conformed dimensions and slowly changing dimensions for SKU, supplier, customer, region and channel analysis.
- As sole analyst, integrated ERP, Square POS, workforce and REST feeds into Bronze/Silver/Gold datasets using Microsoft Fabric, Azure Data Factory/Synapse, SQL and PySpark.
- Owned the Power BI semantic model, DAX library and drill-through reporting; defined revenue, margin, OTIF and inventory KPIs with Sales, Finance and Supply Chain, secured with RLS/RBAC and column masking.
- Built source-to-mart GL/P&L and inventory controls, cutting discrepancies an estimated ~45% and reporting errors ~30% (internal directional estimates, not audited).
- Automated schema, completeness, uniqueness and referential-integrity checks, with anomaly thresholds, exception logs and pipeline alerts.
- Maintained SSIS and SSRS while moving priority SQL Server pipelines to Fabric notebooks; validated cutover with row counts, checksums and control totals.

Shivam Investments

Dec 2020 – Jul 2022 · Vadodara, India (hybrid)

Financial Analyst — Data & Reporting

- Gathered requirements from portfolio and risk stakeholders; delivered Power BI dashboards with auditable measure definitions and reconciled GL/P&L figures across sources.
- Automated recurring preparation with Python and SQL views, replacing spreadsheet consolidation and cutting manual effort an estimated ~40% (internal directional estimate).

SELECTED PROJECTS — public code and CI-tested results; synthetic data is labelled

Supply Chain Analytics — dbt — dbt Core, Databricks, Snowflake, DuckDB, AWS Athena / S3 / Glue Data Catalog (project run), MetricFlow · synthetic data

github.com/KushPatel29/supply-chain-analytics-dbt · docs: kushpatel29.github.io/dbt-docs

One versioned definition of revenue: staging-to-marts dbt with an enforced contract on the executive mart, unit tests, incremental facts and SCD2 snapshots; MetricFlow metrics reconcile to the marts they summarise, and every build names the downstream models a change touches. The same project built on Databricks and on Snowflake: 180 of 180 nodes green on each, and all 41 mart totals equal to the DuckDB build on both. Airflow runs it nightly under its own scheduler in CI. A bounded AWS Athena / S3 run independently reconciles all 32 warehouse measures.

B.C. Local-Government Finance — dbt / DuckDB, SQL, Python, Excel · real public data

github.com/KushPatel29/bc-local-government-finance

dbt on messy official data: 90 provincial files held to written contracts because their shape changes year to year, a dbt model with 31 data tests, and a gold layer rebuilt identically in CI. Found the 68 municipalities investing below renewal need are $570M a year short, and caught the Province's own defects, including a population file where 77 of 161 rows belong to other places.

Retail Analytics Platform — Python, DuckDB / SQL, dbt on Snowflake, Flask · synthetic data

github.com/KushPatel29/wholesale-analytics-platform · live: kushpatel29.github.io/wholesale-analytics-platform

Metric governance that fails the build: four dashboard pages agreed on revenue to the cent while margin did not; $333,573 of cost sat on 3,056 order lines that never shipped. One catalogue of 62 metric definitions now sits behind every page, and the KPI diff that exposed the gap fails the build. The governed marts first ran on Snowflake, which exposed three source defects; 48 of 48 nodes green and 107 of 107 measures reconciled with an independent pandas build.

Supply Chain Control Tower — PySpark, Delta Lake, Databricks, Power BI, SQL

github.com/KushPatel29/supply-chain-control-tower · live: kush-network-risk-decision-room.streamlit.app

Tests that prove what they guard: schema contracts before Bronze, row quarantine with replay and a quality gate on Gold, each proven in CI by injecting the failure it exists to catch; benchmarked at 10M rows and run as a Databricks job with all 36 Gold totals matching the local build to the cent.

GrowthOps OS — dbt, SQL, Power BI (DAX), Excel, Python · synthetic data

github.com/KushPatel29/GrowthOps-OS · live: growthops-os.streamlit.app

Marts that three tools agree on: dbt marts over ad-platform, CRM and payment data explain every dollar between $3.72M claimed and $3.06M collected; a Power BI report with more than 200 documented DAX measures and a formula-driven Excel workbook reach the same answer and tie out to the cent.

Further pipeline and migration evidence: kushpatel29.github.io. All cloud execution receipts identify account scope and dated runs.

EDUCATION

Northeastern University — Master of Professional Studies in Analytics (Applied Machine Intelligence), GPA 3.76/4.0 · Vancouver, BC — **Sep 2022 – Jun 2024**

Gujarat Technological University — Bachelor of Engineering, Computer Science · India — **Aug 2017 – Aug 2021**

CERTIFICATIONS

Databricks Fundamentals · UC Davis SQL for Data Science · Google Data Analytics Professional Certificate · IBM Python for Data Science, AI & Development. Preparing for the Microsoft DP-600 (Fabric Analytics Engineer) exam. First prize, 2024 wildfire-prediction hackathon.