

Ishpinder Kaur | Data Engineering| Snowflake & dbt| ELT Pipelines

Monterrey, Mexico



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PROFESSIONAL SUMMARY

Snowflake-certified data Engineer specializing in Snowflake-based ELT pipelines, building scalable data models, and deploying analytics-ready datasets. Skilled in SQL, dbt, workflow automation using Airflow, and cloud data warehousing. Passionate about building reliable, reusable, and optimized data pipelines.

SKILLS

- Data Warehousing:** Snowflake
- Transformations & Orchestration:** dbt, SSIS, Airflow, ELT/ETL
- Languages:** SQL (CTEs, Window Functions), Python, PySpark
- BI:** Power BI, Tableau
- Security & Governance:** Row-Level Security, Masking Policies, RBAC
- Practices:** Data Modeling, Data quality testing, Git, Agile

CERTIFICATIONS

- SnowPro Core Certification - Snowflake credentials: <https://achieve.snowflake.com/dde5978f-99e8-471f-8aff-c9482c6b76fa>
- dbt Fundamentals – dbt Labs credentials: [dbt Fundamentals • Ishpinder Kaur • dbt Learn - Badge of Completion](#)

PROJECTS

Snowflake + dbt ELT Pipeline Project (Bitcoin Blockchain Analytics)

- Link:** [ishpinderkaur-data/BTC](#)
- Designed and implemented an end-to-end ELT pipeline in Snowflake to ingest and transform 1M+ blockchain transaction records from semi-structured JSON data into analytics-ready warehouse tables.
- Implemented automated data quality checks (20+ dbt tests) to validate freshness, nulls, and referential integrity
- Optimized queries using clustering keys and micro-partitions
- Scheduled and automated daily pipeline runs to ensure reliable, production-style execution

Snowflake Data Security: Row-Level Security & Dynamic Masking

- Link :** [ishpinderkaur-data/snowflake_rls_maskingpolicy](#) **maskingpolicy:** [Snowflake Security Demo: Row-Level Security + Masking Policies](#)
- Implemented Row-Level Security and column masking policies in Snowflake
- Enforced role-based row filtering across 5+ user roles, restricting data visibility based on business function and access level
- Designed an RBAC-driven access model with policy-based governance to ensure secure, least-privilege data access

EDUCATION

Trent University	<i>Canada</i>
M.Sc. Applied Modelling – Big Data Analytics (GPA: 4.00/4.00)	<i>Jan 2024 – Apr 2025</i>
SRM University	<i>India</i>
Bachelor of Technology in Electronics and Communication Engineering (GPA: 8.51/10)	

WORK EXPERIENCE

Extern – Amazon Operational Strategy & People Analytics Externship	<i>Oct 2025 – Present</i>	<i>Remote</i>
- Integrated HR, operational, and external review datasets (~120K+ records) into Snowflake to build unified analytical datasets. - Developed SQL-based transformations to clean, standardize, and structure semi-structured and relational datasets. - Built analytics-ready tables and views in Snowflake to support workforce and operational reporting. - Implemented data validation checks to ensure data consistency and reliability for downstream analytics		
State Bank of India(Data Engineer)	<i>Jan 2020-Nov 2023</i>	<i>India</i>
- Extracted and transformed large financial and customer datasets using Snowflake to support credit risk workflows, improving loan approval efficiency by 10%. - Built structured datasets and reusable queries to standardize KPIs, reducing manual reporting effort by 40%. - Performed data validation and reconciliation checks to maintain 98% data accuracy and reduce reporting inconsistencies by 20%		
Tata Consultancy Services (Data Analyst)	<i>June 2016-Dec 2019</i>	<i>India</i>
- Extracted, cleaned, and transformed large operational and customer datasets using MySQL to support downstream analytics and reporting systems. - Designed structured datasets and standardized schemas from raw operational data across multiple airline systems. - Developed SQL-based transformation logic to generate datasets for performance tracking and operational KPIs. - Implemented data validation and reconciliation processes to ensure data accuracy and GDPR-compliant handling of customer records. - Collaborated with cross-functional stakeholders to translate business requirements into scalable data processing workflows. - Worked in an Agile environment, contributing to data delivery initiatives with 95% on-time sprint completion.		