

# MAULIK RAVAL

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## Profile Summary

Project Controls-oriented Reporting & Data Analyst with 2.5+ years delivering end-to-end, contract-ready reporting—from schema design and ETL to Power BI digital reports (DAX, measures), validation, monitoring, and variance analysis. Skilled in multi-stakeholder data sourcing, conformance review, and trend/outlier analysis. Currently advancing through an MSc in Computer Science (Data Science). Eager to apply analytical expertise and business insight to drive data-backed decisions, optimize operational performance, and improve system-level efficiency. [Portfolio](#) 

## Experience

### Teaching Assistant & Tutor – Computer Science and Mathematics Departments

University of Regina

Mar 2025 – Present

- Centralized issue and quality control for 100+ Python/SQL users, resolving most cases independently and escalating non-standard issues with clear diagnostics and root-cause summaries.
- Enhanced accuracy and turnaround by 35% by designing standardized validation scripts, review templates, and quality checklists, embedding repeatable controls into the workflow.
- Communicated and presented data insights effectively to diverse audiences, ensuring clarity and actionable outcomes.

### Data Scientist

Enlighten Infosystems

Jan 2024 – Sep 2024

- Delivered end-to-end ETL and reporting workflows on AWS and SQL, reducing preparation effort by 30% by converting inconsistent source feeds into governed datasets.
- Built Power BI digital reports with automated refresh, validation, and variance checks, cutting manual reporting effort by 40% and improving reliability and management confidence.
- Performed schedule-aligned variance checks between data refresh cycles, expected delivery timelines, and reported KPIs, flagging delays and anomalies early to support corrective action and reliable reporting.

### Python Developer (Intern)

Brainy Beam Technologies Pvt. Ltd.

Jul 2023 – Jan 2024

- Architected relational reporting schemas and controlled access patterns, establishing a single source of truth and improving auditability across teams.
- Eliminated 90%+ of reporting discrepancies by implementing multi-stage QA, reconciliation checks, and runbooks.
- Enhanced data integrity and reliability, resulting in improved decision-making and operational efficiency.

## Education

### MSc. in Computer Science (Data Science)

Regina, Canada

University of Regina, Grade: 88.75/100

### BTech. in Computer Science Engineering

Gujarat, India

Gujarat Technological University, Grade: 87/100

## Skill Summary

**Reporting & Controls:** Power BI (DAX, measures), Excel; digital project reporting, KPIs, variance and trend analysis.

**Data & Automation:** SQL (MySQL, PostgreSQL), Python ETL; automated pipelines, governed datasets, reliable refresh.

**Quality & Governance:** Validation rules, reconciliation, runbooks; contract-ready, auditable reporting.

**Analysis & Stakeholders:** EDA, outliers, root-cause analysis; clear communication across technical and non-technical teams.

## Projects

**Traffic Accident Severity Analytics** - Designed AWS-based ETL and validation pipelines for 7.7M+ records, automating quality checks, monitoring, and refresh so safety dashboards consistently delivered clean, timely, decision-ready reporting.

**HR & Sales Performance Analytics** - Built SQL/Python data models and Power BI reports with standardized definitions and QA rules, reducing manual reporting by 40% and accelerating management decision cycles.

**House Price Prediction System** - Developed end-to-end analytical pipelines (Python, SQL) with feature engineering and validation, supporting scalable modeling and stakeholder-facing dashboards for reliable, interpretable insights.

## Certifications

- Data Science Tools** — IBM (Reporting, analytics platforms, applied data workflows)
- IBM Cloud Essentials** — IBM (Cloud fundamentals, data and reporting environments)
- Career Essentials in Data Analysis** — Microsoft & LinkedIn (Business reporting, stakeholder communication)
- Presentation Skills** — University of Regina (Executive and management-facing communication)