

# Shrasth Kumar

## Data Analyst

Edmonton, AB (249) 535-3106 - [Email](#) - [LinkedIn](#) - [GitHub](#) - [Portfolio](#)

### EXPERIENCE

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#### Vision AI Data Analyst

(Feb. 2026 – Present)

NTT DATA

Edmonton, AB

1. Coordinate collection, cleaning, validation, and matching of data from multiple sources including glove usage, vial counts, operator logs, and environmental monitoring systems using Python and SQL to ensure accuracy, completeness, and integrity.
2. Produce dashboards, performance indicators, and operational reports on established production schedules, tracking key performance indicators (KPIs) such as downtime reduction, deviation prevention, and sterility performance for leadership review.
3. Maintain source files, documented methodologies, and quality controls for recurring analytical processes, ensuring deliverables are reproducible, defensible, and consistently meet reporting timelines and quality standards.
4. Investigate anomalies detected by Vision AI systems through root cause analysis to identify underlying process issues, emerging trends, and opportunities for continuous improvement.
5. Collaborate with engineering, quality, and manufacturing stakeholders to communicate analytical approaches, assumptions, and limitations and translate findings into practical, action-oriented process improvements.

#### Research Analyst

(Dec. 2025 – Feb. 2026)

Nexus Risk Solutions

Edmonton, AB

1. Designed end to end data pipelines using Python and SQL to ingest, clean, transform, and link asset level datasets from multiple administrative sources, deriving new variables and indicators for reliability analysis.
2. Built and maintained interactive Power BI dashboards using DAX to monitor equipment reliability, downtime trends, maintenance events, and safety indicators, improving visibility into operational performance.
3. Implemented automated data validation, quality checks, and monitoring logic to assess data quality and ensure the accuracy, consistency, and integrity of information used for risk and safety reporting.
4. Analyzed historical production, maintenance, and incident data using statistical and analytical methods to identify risk patterns, early warning signals, and emerging reliability issues.
5. Documented reproducible analytical processes, data definitions, and reporting requirements in collaboration with safety and reliability stakeholders to support consistent and auditable reporting.

#### Data Analyst

(May 2025 – Jan 2026)

Interact Health PRO Toronto, ON

1. Collected, organized, and analyzed quantitative and qualitative operational and clinical data from multiple sources using SQL, Python, and Excel to identify trends, emerging issues, and opportunities for improvement.
2. Coordinated data and information requests with clinical and operational stakeholders, tracking submissions, following up on outstanding items, and resolving data quality issues to meet reporting deadlines.
3. Designed and maintained interactive Tableau and Power BI dashboards tracking key performance indicators for operational efficiency and quality outcomes, streamlining recurring reporting processes.
4. Developed reproducible and documented analytical processes including data definitions, methodologies, and validation steps to support data integrity, auditability, and consistent reporting.

## ML Data Associate I (CXQO Associate)

(Sept 2019 – July 2023)

Amazon

Hyderabad, India

1. Managed, validated, and analyzed large scale structured datasets supporting machine learning model training, evaluation, and performance measurement across customer experience and quality optimization initiatives.
2. Applied statistical, analytical, and research methodologies including exploratory data analysis and error pattern investigation to answer business questions and evaluate model performance.
3. Created analytical summaries and performance reports, communicating methodologies, assumptions, limitations, and findings clearly to both technical and non-technical audiences.
4. Collaborated with analysts to clarify problem statements and validate assumptions while working independently and managing multiple priorities in a deadline driven environment.

## TECHNICAL PROFICIENCIES

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1. Data Management & Analysis: Python, SQL, Advanced Excel, Data fusion.
2. Statistics & Research Methods: regression analysis, exploratory data analysis, trend analysis, NLP-based qualitative text analysis, anomaly detection.
3. Reporting & Visualization: Power BI (DAX), Tableau, Proprietary Enterprise BI Systems, KPI tracking, executive reports and presentations.

## PROJECTS

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### **Fraud Detection Analytics** – Python, SQL, Power BI, Scikit-learn

Developed ML pipeline using ensemble models and logistic regression to detect 10,000 fraudulent transactions. Built SQL data pipelines and Power BI dashboards to enhance data quality and visualize fraud trends for financial decision-making.

### **Railway Safety Analysis** – Python, Tableau, SHAP, NLP, Large language model (LLM)

Built an AI-enhanced risk assessment tool analyzing 63,000 Canadian rail incident records (2005–2025) using NLP and ML, with SHAP-based explainability and interactive dashboards to support safety insights and risk prevention.

### **Public Health Analytics Dashboard** - DAX, SQL

Built an interactive Power BI dashboard using 250K+ health records processed in Google Cloud Platform (GCP); applied SQL, DAX, and data modeling to analyze diabetes prevalence and visualize demographic, lifestyle, and medical risk drivers.

## CERTIFICATIONS

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1. Google Data Analytics Specialization
2. Data Science Professional Certificate
3. Data Visualization with Tableau Specialization
4. Excel Skills for Business Specialization
5. AWS Academy Graduate – Cloud Foundations

## EDUCATION

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Post Graduate Certificate, Big Data Analytics & Artificial Intelligence  
Georgian College, Barrie, Ontario

(Sept 2023 – Apr 2025)