

# Pratham Sharma

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## WORK EXPERIENCE

### Trillium Health Partners

Mississauga, ON

Data Scientist

Sep 2023 - Present

- Developed forecasting models using advanced time series and regression algorithms to accurately forecast daily visits to the ED, achieving **96% forecasting accuracy**
- **Drove a 28% reduction in under-staffing** during periods of peak ED demand by integrating forecasting tools into existing processes in collaboration with cross-functional teams, enhancing overall resource planning
- **Deployed an Azure Automation Runbook** to generate weekly forecasts from the forecasting models and effectively communicate results to clinical teams for streamlined decision-making
- **Led the development of 6 Power BI dashboards** used by 50+ stakeholders across multiple departments, showcasing trends in KPIs and conveying key insights to stakeholders
- Extracted, transformed, and combined data from 6 data sources using **Microsoft SQL Server** to create comprehensive datasets for KPI analysis
- **Boosted data model efficiency by 30%** by utilizing the **snowflake schema** to develop advanced data models supporting the development of interactive dashboards

Data Analytics Co-op

May 2023 - Aug 2023

- Created a comprehensive **Power BI dashboard** to track organizational performance across 63 KPIs
- **Improved data quality by 38%** by implementing automated data quality and integrity checks using Python, leading to accurate dashboard reporting
- Maintained technical documentation for 5 data models and dashboards, and over 50 KPI definitions and calculations, ensuring consistency across dashboards and reports

### RedCarpetUp.com

New Delhi, India

Data Analyst Intern

Jan 2022 - Jun 2022

- **Developed and optimized 7 ETL pipelines using Apache Airflow** to make high quality data available for A/B testing, as well as to automate standard reporting requests and other tasks
- **Reduced the time taken to detect fraudulent activity by 56%** (from 2.5 hours to 1 hour) by implementing statistical algorithms to identify anomalies in financial transactions
- Utilized **PostgreSQL** to extract data for the creation of interactive dashboards using **Apache Superset**, conveying actionable insights

## TOP SKILLS

**Programming Languages:** Python, PySpark, R

**Databases:** PostgreSQL, Microsoft SQL Server, SparkSQL, MySQL, MongoDB

**Data Science Skills:** Machine Learning, Natural Language Processing, Computer Vision, Statistical Modeling, Hypothesis Testing, Data Visualization, Pandas, NumPy, Scikit-Learn, TensorFlow, OpenCV

**Tools & Technologies:** Microsoft Power BI, Microsoft Fabric, Microsoft Azure, Apache Airflow, Git, Microsoft Office, ETL Pipelines, Apache Superset

## EDUCATION

### University of Western Ontario

London, ON

Master of Data Analytics | GPA:3.95

### Vellore Institute of Technology

Vellore, TN, India

Bachelor of Technology, Computer Science & Engineering | GPA: 3.86

## CERTIFICATIONS

Microsoft Certified: Fabric Analytics Engineer Associate - [View certification](#)

Microsoft Certified: Azure Data Fundamentals - [View certification](#)