

Pratham Sharma

Toronto, ON | (365) 275-3191 | prathams2425@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio Website](#)

WORK EXPERIENCE

Trillium Health Partners

Mississauga, ON

Data Scientist

Sep 2023 - Present

- Architected and implemented an **end-to-end ML pipeline** to extract and process raw data, generate forecasts using forecasting models, and communicate results to operational teams for streamlined decision-making
- Developed forecasting models using advanced time series and regression algorithms to accurately forecast daily visits to the ED, achieving a **4% error rate**
- **Drove a 27% reduction in under-staffing** during periods of peak ED demand by integrating forecasting models into existing processes, enhancing overall resource planning
- Designed a **What-if analysis dashboard** to integrate multiple predictive models and predict important performance metrics based on various hospital parameters
- Led the development of **7 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 **5+ 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, R, JavaScript

Databases: PostgreSQL, Microsoft SQL Server, MySQL

Data Science Skills: Machine Learning, Pandas, Numpy, scikit-learn, TensorFlow, Statistical Modeling, Hypothesis Testing, Data Visualization, Data Warehousing, Natural Language Processing, Computer Vision

Tools & Technologies: Microsoft Power BI, Tableau, Microsoft Azure, Azure Machine Learning, MLflow, Azure Data Lake, Data Pipelines, Microsoft Fabric, Git, Apache Airflow, Apache Superset

CERTIFICATIONS

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

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

Tableau Desktop Specialist - [View certification](#)

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