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**
- Collaborated with cross-functional teams to integrate forecasting tools into existing processes, leading to **improved resource planning** and a **28% reduction in under-staffing** during periods of high ED visits
- 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** for cross-functional teams, 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
- Utilized the **snowflake schema** to develop advanced data models supporting the development of interactive dashboards, resulting in a **30% improvement in data model efficiency**

Data Analytics Co-op   *May 2023 - Aug 2023*

- Created a comprehensive **Power BI dashboard** to track organizational performance across 63 KPIs
- Programmed automated data quality and integrity checks using Python, leading to a **38% improvement in data quality** and 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
- Implemented statistical algorithms to identify anomalies in financial transactions, resulting in a significant **56% decrease in the time taken to detect fraudulent activity**
- 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, NumyPy, Scikit-Learn, TensorFlow, OpenCV
Tools & Technologies: Microsoft Power BI, Microsoft Fabric, Microsoft Azure, Apache Airflow, Git, Microsoft Office

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

PROJECTS

Hurricane Damage Prediction using CNNs - [GitHub](#)   **Apr 2023**
A deep learning model to identify areas damaged by hurricanes

- Formulated an **image processing** algorithm to pre-process images using Canny edge detection, erosion, and Gaussian blur techniques
- Implemented a custom CNN model specifically designed for identifying images displaying hurricane damage, achieving a **93% accuracy on the test set**
- Achieved a **25% reduction in model complexity** as compared to the pre-trained VGG-16 model, while achieving comparable accuracy for the same task