Abhishek Paul

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Summary

Data Scientist with five years of experience working with cross-functional teams in building systems that leverage data to deliver tailored solutions into production. Self-motivated and lifelong learner capable of building end-to-end ELT pipelines and ML systems.

Skills

- **Programming**: Python | C++ | Java | JavaScript | Node | Express | React | Django | SciKit
- **Data**: Postgres | AWS | Azure | Snowflake | MySQL | Pandas
- **Technologies:** Alteryx | Grafana | PowerBI | Visual Studio | GitLab

Experience

Senior Data Scientist — **Rogers Communications** — *Brampton, ON, Canada* — **06/2022 - Current**

- Joined the data analytics and insights team, where I worked with both internal stakeholders to build tools that leverage our different data sources to solve business problems
- Spearheaded the development of a forecasting model leveraging Meta's Prophet to predict network traffic growth, integrating considerations for seasonality and the influence of public events on abnormal network traffic.
- Developed a real-time network disruption identification tool. Collaborated with network engineering teams to identify problematic network patterns and then trained a **Seasonal decomposition** (STL) detection model to identify these patterns in live data swiftly. Decreased detection lead time from hours to minutes, enabling quick alerting and preemptive issue resolution and ensuring uninterrupted service for customers
- Designed a comprehensive and intuitive KPI dashboard utilizing **Grafana** to monitor ongoing Rogers 5G deployment in the TTC (Toronto Transit) subway system. Used extensively by senior leadership, planning teams, and external stakeholders, this dashboard was **pivotal in deploying 5G cellphone coverage in less than four months**.
- Utilized customer connectivity data to provide customer journey analytics, station congestion, and other dashboards and analytics to TTC. This was part of a pioneering initiative to leverage customer connectivity data to collaborate with municipalities and improve municipal services planning.
- Utilized Principle Component Analysis (PCA) and Random Forest Models to identify the key causes of customer churn. The model leverages customer data, network KPIs, and price plans to get a comprehensive overview of the customer This model has been incorporated as part of Rogers's Customer Retention playbook in order to deploy personalized retention campaigns.

Data Scientist — **Rogers Communications** — *Brampton, ON, Canada* — **05/2020 - 06/2022**

- Led a team of 3 to migrate multiple on-prem processes onto the Azure cloud environment.
- Proactively refactored and enhanced the performance of ETL pipelines through the implementation of intelligent partitioning and indexing. Achieved a **64% reduction in run time**.
- Provided mentorship to new team members through pairing sessions, providing an understanding of the internal data stacks and methodologies.

Past Experiance

Software Developer Intern — **AMD** — *Markham, ON, Canada* — **05/2018 - 05/2019**

Education

BASc in Computer Engineering — **University of Toronto** — **08/2015 - 04/2020**

MS in Computer Science Candidate — **University of Texas at Austin** — **01/2023 -12/2024**

Activities

Canoeing, Habour Front Canoe, and Kayak Center