

Purveshkumar Patel

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EDUCATION

Bachelor of Science Honours in Computer Science

2022-2026

York University, Toronto

Relevant Coursework: Data Analysis, Statistics, Software and Hardware, Data Visualization, Advanced OOP, AI & Logic Programming, Algorithms and Data Structures I and II, Series Analysis & Forecasting.

PROJECTS

Network Bands Monitoring Tool

Used a Python-based tool to simulate UE request and analyze wireless network band (frequency, throughput, and signal strength).

- Collected network logs and processed them using scat to extract performance trends.
- Used Wireshark to visualize trends, enabling root-cause analysis of degraded performance.
- Used uecapability viewer software to identify limitation of smartphone.

Network Sites Monitoring Dashboard

Developed a PowerBI report to monitor real-time site data and provide insights.

- Utilized ISED spectrum management data to fetch live network sites with their location, frequency and bandwidth.
- Designed and implemented dynamic dashboard displaying a map on top with the site location and the band it uses along with filters to narrow it down to a particular company or frequency band.
- Included features to find old sites and potential coverage gap using filters and map.

Customer Analytics Dashboard

Developed a Power BI dashboard to visualize customer engagement and support operations.

- Connected and transformed data from SQL databases and APIs into actionable customer KPIs.
- Designed interactive charts to reflect trends, retention, and sentiment analysis.
- Included drill-through capabilities to identify pain points in service interactions.

EXPERIENCE

Data Analyst at Community Services I&IT Cluster (GOVTECHON)

Sep 2024 - Present

- Working on creating a service metrics Dashboard for CIO
- Developing and maintaining multiple Reports and Dashboard
- Collaborating with Different teams to ensure seamless integration of Data in the report
- Used Python Script as a back-end to fetch data via API's and store them in Database.

Software Lead at York University Robotics Society

May 2023 - Sep 2024

- Participating in regular code reviews and providing constructive feedback to maintain code quality and consistency
- Developing real-time control algorithms for rover mobility and manipulation tasks within the ROS 2 framework
- Collaborating with cross-functional teams to ensure seamless integration of hardware and software components
- Used OpenCV and python flask server as a backend to manage the Bot.

Summer Student at Toronto Transit Commission (TTC)

May 2023 - Sep 2023

- Assisted in data analysis and reporting for transit operations and customer feedback surveys.
- Developed automated reports using Excel and SQL, reducing reporting time by 50%.
- Improved service efficiency and customer satisfaction ratings by analyzing and acting upon survey insights.

Team Lead at Google Developer Club

Dec 2022 - Apr 2023

- Managed a team of developers in organizing workshops, hackathons, and coding competitions.
- Coordinated with industry professionals to conduct tech talks and mentorship sessions for club members.
- Increased club membership by 30% and received positive feedback from participants for event organization and content.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, Bash, Java, C, Assembly, Verilog

Networking/Telecom: 3G/LTE/5G concepts, IP networks, Transmission/Backhaul, Wireshark, NR NSA/SA, TCP/IP, Fiber troubleshooting, uecapability information, Carrier aggregation combos.

Tools & Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV, Flask, Power BI, MySQL

Platforms: Linux, Windows, Git, Docker, ROS 2, Azure, AWS, GCP

Concepts: RDBMS, API Integration, KPI Monitoring, Data Visualization, Shell Scripting

Soft Skills: Documentation, Communication, Analytical Thinking, Team Collaboration