

Vibhu Sharma

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EDUCATION Memorial University of Newfoundland

St. John's, NL

Bachelor of Science, Major in Data Science and minor in BBA

May 2022 - April 2026

Research (in progress): Co-authoring paper on neural networks for longitudinal data with random effects models

Founder & Core Lead | Genralis AI Club, Memorial University

St. Johns, NL

AI-club founding

May 2025 – Present

- Founded and lead an AI-focused student organization working on applied machine learning, automation, and analytics systems
- Organized workshops on Python, data workflows, and predictive modelling
- Mentored students in data science fundamentals and project development
- Raised \$5,000+ CAD in funding for student-led technical initiatives
- Led development of the organization website and internal tooling systems

Data Quality Analyst & Full Stack Developer | Diag Lab, Memorial University

St. Johns, NL

Data Analyst & Developer

Nov 2025 – April 2026

- Managed and validated datasets to improve data quality, consistency, and reporting accuracy.
- Handled structured and unstructured data operations, database queries, and workflow automation for a medical diagnostics research pipeline.
- Contributed documentation of data pipeline of 300+ medical analysis and worked on platforms like medical image manual labelling tool.

Housekeeping Supervisor | Hampton Inn by Hilton

St. Johns, NL

Supervisor

Feb 2023 – Present

- Lead and coordinate operational workflows during peak hotel occupancy periods.
 - Managed staffing coordination, workflow prioritization, and operational reporting to improve efficiency.
 - Improved cleanliness and inspection scores from 85% to 98% through process optimization and team leadership.
 - Built and deployed PTSE (ptse.app), a full-stack workforce management PWA used daily by ~40 staff covering shift tracking, and operational reporting across a 1 million CAD+ ARR business.
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PROJECTS

PTSE – Hotel Workforce Management PWA | ptse.app

- Full-stack PWA with Next.js, TypeScript, Supabase (PostgreSQL + Auth), Vercel; role-based access, multi-tenant isolation; sole developer iterating from live staff feedback

Real-Time Fraud Detection Pipeline (AWS) | github.com/Vib01/real-time-fraud

- Built event-driven fraud detection on AWS (Lambda, SQS, EventBridge, SNS); synthetic transaction generator with severity scoring
- CRITICAL-level transactions trigger simulated bank freeze — designed for real-time banking sandbox environment

Fast-F1 Analytics Tool | https://github.com/Vib01/F1-drivers-performance-on-rainy-day

- Python-based platform to process and visualize Formula 1 performance data dashboard

SKILLS & INTERESTS

Languages & Data: Python, R, SQL, JavaScript, TypeScript; Pandas, NumPy, Scikit-learn, Matplotlib

AI & Analytics: Predictive modelling, time-series forecasting, ML workflows, ETL, API integration

Tools & Platforms: Power BI, Tableau, Excel, React, Next.js, Flutter, Flask, Supabase, Git, MySQL, Vercel, AWS

Certifications: IBM – Data Analysis Using Python, AI Fundamentals, Python for Data Science; Microsoft – Power BI

LEADERSHIP & INTERESTS

Leadership: Founder – Genralis AI Club; Volunteer – MUNSU Fall Welcome Fair (2025),

Rainbow Riders Therapy Centre (2025), National Service Scheme, India (2020-2021)