Mantaj Singh

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EDUCATION

Acadia University — Wolfville, NS
Bachelor of Computer Science (Data Analytics) — *Expected Dec. 2026*

Relevant Coursework: Python Programming, Discrete Mathematics, Calculus, Statistics, R Studio, Computer Architecture, Software Engineering, Artificial Intelligence, Operating Systems, Data Communication, Financial Accounting, Human-Computer Interaction

Accolades: Student Excellence Scholarship, Dean's List 2024/25

TECHNICAL SKILLS

Programming: Python, Java, R, SQL, JavaScript, TypeScript, HTML/CSS   (familiar: C, C++)
Data / Analytics Tools: Tableau, Power BI, RStudio, SQL Server, PostgreSQL, MongoDB
Web / Dev Tools: Node.js, Express.js, React.js, Docker, Vercel
Productivity: Microsoft Word, Excel, PowerPoint, Outlook
Operating Systems: Windows, macOS, Linux
Interpersonal: Strong collaborator; able to work independently on complex analytical problems

EXPERIENCE

Research Assistant — Oct. 2024 – Present
Acadia University — *Wolfville, NS*

- Automated repetitive research tasks using Python and R to increase data processing efficiency.
- Analyzed data from 160+ YouTube channels to uncover content and engagement insights.
- Collaborated with peers to solve complex analytical problems using data-driven approaches.

Online Data Analyst (Part-Time) — Sep. 2025 – Present
TELUS International — *Remote*

- Reviewed 150+ AI-generated entries and ratings per shift to ensure quality and relevance.
- Verified that outputs aligned with user intent and internal content guidelines.
- Flagged incorrect or outdated content to help improve overall system accuracy.

ACADEMIC PROJECTS

Vendor Performance Dashboard | *Power BI, Python, PostgreSQL* — Live — Source

- Built an automated ETL pipeline using Python and PostgreSQL to clean and prepare 2,000+ procurement records.
- Designed Power BI dashboards showing vendor rating, payment days, and on-time delivery to support purchasing decisions.

Gradient Boosting Regression Model | *Python, scikit-learn* — 2025

- Developed a gradient boosting model and compared its performance with baseline models.
- Cleaned data, tuned hyperparameters, and analyzed feature importance to explain key prediction drivers.

StudyLink – Group Study Platform | *React.js, Node.js, Express.js, PostgreSQL, TypeScript, Docker, Vercel* — 2024

- Designed and deployed a full-stack platform for creating and managing study groups.
- Built a RESTful backend with PostgreSQL and containerized services using Docker for reliable deployment.

Event Management System | *React.js, Node.js, Express.js, MongoDB* — 2024

- Developed a responsive web app for event creation, editing, and attendee management.
- Implemented smooth UI flows with React Router and coordinated front-end/back-end integration.

CERTIFICATES & TRAINING

McMaster University: Data Analytics and Modelling Course (2024)
Google: Google Data Analytics Certificate (2025)