

# Mantaj Singh

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## EDUCATION

### Acadia University

Bachelor of Computer Science (Data Analytics)

Wolfville, NS

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

Acadia University

Oct. 2024 – Present

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)

TELUS International

Sep. 2025 – Present

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- Flagged incorrect or outdated content to help improve overall system accuracy.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

Source

- 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 | React.js, Node.js, Express.js, PostgreSQL, TypeScript, Docker, Vercel

Source

- 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

Source

- 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)