Akash Maity

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EXPERIENCE

Student Representative   **Dalhousie University**
Dalhousie Machine Learning Society   *Nov 2025 - Present*

- Represent 200+ student members by bridging communication between student body and executive leadership team.
- Lead outreach initiatives increasing student participation in AI/ML workshops, hackathons, and mentorship events
- Collaborate with technical and events teams to design hands-on learning sessions in machine learning and data science
- Develop public speaking, stakeholder communication, and leadership experience in a technical academic community

Relevant Skills: Leadership, Technical Community Building, Event Coordination, Communication, AI/ML Exposure

Teaching Assistant   **Halifax, NS, Canada**
Dalhousie University   *Jan 2024 – Apr 2024*

- Assisted first- and second-year computer science students with programming and problem-solving concepts
- Explained technical topics clearly to diverse learners, strengthening communication and mentoring skills
- Managed academic responsibilities in a hybrid teaching environment

Relevant Skills: Programming Support, Debugging, Technical Communication, Mentorship

Food Service & Kitchen Operations   **Halifax, NS, Canada**
Multiple Employers   *May 2023 - Present*

- Worked in high-volume food service and kitchen environments, managing multitasking, time-sensitive workflows, and quality control
- Collaborated with team members to maintain efficient operations and customer satisfaction
- Followed food safety, hygiene, and process standards consistently under pressure
- Developed strong reliability, work ethic, and team communication skills

Employers include: CHKN CHOP, Smoke's Poutinerie Inc., Potikki's
Transferable Skills: Time Management, Teamwork, Process Discipline, Customer Service

EDUCATION

Dalhousie University   *2023 – present*
Bachelor's, Computer Science

     Relevant Course: Data Structures and Algorithms, Practical Data Science, Intro to Database System, Data Mining, Intro to Machine Learning

PROJECTS

BRI – Banking Risk Intelligence | Python, SQL, Power BI (personal project)   *Jan 2026*
     Problem: Banks face financial losses due to poor loan risk assessment.

- Built an end-to-end risk analytics system analyzing **10,000+ simulated customer records** to identify high-risk loan applicants
- Applied statistical analysis and machine learning-based risk segmentation to classify customers into low, medium, and high-risk groups
- Developed a **4-page interactive Power BI dashboard** enabling loan officers to visualize applicant risk scores and financial stability metrics

Tech Stack: Python, Pandas, NumPy, Scikit-learn, SQL, Power BI

SPA – Student Personal Assistant (AI Automation System) | N8N, Gemini API   Sept 2025

Problem**:** Students struggle to manage emails, schedules, and reminders, leading to missed deadlines.

- Developed an AI automation system integrating Gmail, Calendar, and Sheets APIs
- Automated scheduling and reminder workflows handling **20+ simulated daily tasks**
- Explored AI-driven productivity solutions for student task management

Tech Stack: N8N, Google Gemini API, Gmail API, Google Calendar API

Gemini Insight – AI Browser Extension | JavaScript, Node.js (personal project)   *Oct 2025*

Problem: Students waste time switching tabs and copy-pasting text to AI tools for explanations.

- Built a Chrome extension providing instant AI explanations for highlighted text
- Integrated Gemini API for real-time responses
- Improved content lookup efficiency by reducing manual copy-paste steps

Tech Stack: JavaScript, Node.js, HTML, CSS, Gemini API

QuickCash – Job Posting Mobile App | Android Studio (group project)   *Jan 2025 – Apr 2025*

Problem: Struggle to find short-term local jobs quickly.

- Developed a location-based job app with Google Maps integration
- Supported simulated testing with **200+ job posts** and in-app PayPal payments
- Designed an intuitive interface for short-term job discovery

Tech Stack: Java, Android SDK, Google Maps API, PayPal API

PetMed – Veterinary Drug Simulation Platform | JavaScript, PHP   *Sep 2024 – Dec 2024*

Problem: Veterinary students lack safe environments to practice drug dosage decisions.

- Contributed to a web-based simulation allowing students to test drug dosages on virtual cat patients
- Implemented real-time visualization of **3 physiological response graphs** (EtCO2, SpO2, CO2)
- Supported platform stability and UI improvements, enhancing usability for **50+ student users**
- Helped deliver a tool improving clinical decision-making practice without real-world risk

Tech Stack: HTML, CSS, JavaScript, PHP

Multithreaded Chat Application | Java   *Jun 2022*

Problem: Understanding real-time communication and concurrency is critical in modern software systems.

- Built a client-server chat system supporting concurrent users through multithreading
- Enabled real-time message exchange with minimal latency on localhost testing
- Strengthened fundamentals in networking and thread synchronization

Tech Stack: Java, Sockets, Multithreading

CERTIFICATIONS

- **Introduction to Generative AI** – Google Cloud, Nov 2025
- **Introduction to Large Language Models** – Google Cloud, Nov 2025
- **Introduction to Responsible AI** – Google Cloud, Nov 2025
- **Responsible AI: Applying AI Principles with Google Cloud** – Google Cloud, Nov 2025
- **Agantic AI** – ShiftKey Labs, Oct 2025

Skills gained: AI, Prompt Engineering, N8N, API Integration, JavaScript, JSON