

Caalvin Sahayathan

Aspiring AI/Machine Learning Research Assistant

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Professional Summary

Detail-oriented Software Engineering Technology – AI student with strong analytical skills, hands-on project experience, and a deep interest in ethical and human-centered machine learning research. Committed to advancing interpretable, responsible AI through collaboration and technical rigor.

Education

Centennial College — Software Engineering Technology – Artificial Intelligence
Toronto, ON | 2024 – Present

Skills

Programming & Tools: Python, C#, SQL, Linux, OOP

Core Competencies: Machine Learning Concepts, Research Writing, Ethical AI, Problem Solving, Team Collaboration, Attention to Detail

Project Experience

AI-OS – Adaptive Intelligence Operating System

- Designed a conceptual OS prototype with machine learning-based workflow automation and predictive personalization.
- Explored real-time behavior modeling to enhance user efficiency and system responsiveness.

Yoga-Inspired AI Framework

- Modeled an AI algorithm based on Yogic psychology (Manas, Buddhi, Chitta, Ahamkara) for interpretable and mindful machine learning.
- Highlighted the value of cross-cultural ethics and mental models in AI development.

AI Lottery Predictor (Conceptual)

- Developed a statistical model exploring AI's capacity to identify patterns in random systems.

- Emphasized limitations of AI, overfitting risks, and ethical boundaries in predictive modeling.

Experience

Deputy Returning Officer

Elections Canada & Elections Ontario – Scarborough, ON | 2025

- Managed secure and accurate voting processes under strict legal compliance.
- Reinforced skills in high-stakes data handling and procedural integrity—aligning with ethical AI values.

Key Highlights

- 2nd Dan Black Belt in Karate: Demonstrated discipline and perseverance from a young age.
- Karate Instructor: Led training for children and adults, cultivating leadership, resilience, and structured mentorship.
- AI Interests: Passionate about AI for Social Good, Human-Centered Design, and building transparent, responsible AI systems.