Pranav Upreti

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EDUCATION

University of Toronto   Toronto, ON
Engineering Science — 3.90 cGPA — UofT Quantum Computing Club, Dragon Boat team   *2024 – 2029*

Dr. G. W. Williams Secondary School   Aurora, ON
OSSD and IBDP — IB score 44/45 — Coding Club, Math Club, Senior Winds Ensemble   *2020 – 2024*

EXPERIENCE

Private Tutor   Nov. 2021 – August 2024
Virtual tutor   *Richmond Hill, ON*
- Tutored an elementary school student in math and science.
- Taught beyond school curriculum and helped student prepare for Waterloo math contests.

NRGHacks   Aug. 2023 – Nov. 2023
Event Organizer and Judge   *Aurora, ON*
- Organized an interschool hackathon with 100+ attendees. Due to the success of our event, it has become an annual event.
- Led a team of 7 students to prepare workshops, handbooks, and event logistics. Oversaw marketing and budget.
- Ran an introductory workshop and Pygame and judged participant entries on a panel with professional developers from industry.

University of Toronto Quantum Computing Club   Oct. 2024 – Present
General member   *Toronto, ON*
- Attend weekly lectures on quantum algorithms and hardware.
- Learned about quantum dots, and basic ideas behind superposition and quantum hardware.

PROJECTS

Deets   December 2023 - April 2024
Co-Founder   *Aurora, Ontario*
- Developed an AI-powered learning tool to help students with special needs learn more effectively by summarizing content on their screen
- Implemented a pretrained BERT-CNN model from HuggingFace to generate text summaries.
- Validated the idea through discussion with special needs educators in our school community.

Machine Learning Report   Sept. 2023 – January 2024
On the feasibility of 'intelligent' AI   *Aurora, ON*
- Self-taught linear algebra and multivariable calculus to understand and discuss the mathematical theory behind neural networks.
- Created a vanilla neural network without machine learning libraries in Python. Ran experiments to test performance with different parameter settings.
- Organized findings effectively in a report.

AWARDS

University of Waterloo Chem 13 News Contest   2024
- 98th in Canada

University of Waterloo Avogadro Contest   2023
- Top 10% in Canada

Ontario Association of Physics Teachers Contest   2023
- 13th in Canada

SKILLS & INTERESTS

Skills: MATLAB, C++, Python (Keras, TensorFlow), HTML/CSS, Java, LaTeX

Interests: Machine learning, Quantum algorithms, Robotics, Wildlife photography