

# Pranav Upreti

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## EDUCATION

<b>University of Toronto</b> <i>Engineering Science — UofT Quantum Computing Club, Iron Dragons – Dragon Boat team</i>	Toronto, ON 2024 – 2029
<b>Dr. G. W. Williams Secondary School</b> <i>OSSD and IBDP — IB score 44/45 — Coding Club, Math Club, Senior Winds Ensemble</i>	Aurora, ON 2020 – 2024

## EXPERIENCE

<b>Private Tutor</b> <i>Virtual tutor</i> <ul style="list-style-type: none"><li>Tutored an elementary school student in math and science.</li><li>Taught beyond school curriculum and helped student prepare for Waterloo math contests.</li></ul>	Nov. 2021 – August 2024 Richmond Hill, ON
<b>NRGHacks</b> <i>Event Organizer and Judge</i> <ul style="list-style-type: none"><li>Organized an interschool hackathon with 100+ attendees. Due to the success of our event, it has become an annual event.</li><li>Led a team of 7 students to prepare workshops, handbooks, and event logistics. Oversaw marketing and budget.</li><li>Ran an introductory workshop and Pygame and judged participant entries on a panel with professional developers from industry.</li></ul>	Aug. 2023 – Nov. 2023 Aurora, ON
<b>University of Toronto Quantum Computing Club</b> <i>General member</i> <ul style="list-style-type: none"><li>Attend weekly lectures on quantum algorithms and hardware.</li><li>Learned about quantum dots, and basic ideas behind superposition and quantum hardware.</li></ul>	Oct. 2024 – Present Toronto, ON

## PROJECTS

<b>Deets</b> <i>Co-Founder</i> <ul style="list-style-type: none"><li>Developed an AI-powered learning tool to help students with special needs learn more effectively by summarizing content on their screen</li><li>Implemented a pretrained BERT-CNN model from HuggingFace to generate text summaries.</li><li>Validated the idea through discussion with special needs educators in our school community.</li></ul>	December 2023 - April 2024 Aurora, Ontario
<b>Machine Learning Report</b> <i>On the feasibility of 'intelligent' AI</i> <ul style="list-style-type: none"><li>Self-taught linear algebra and multivariable calculus to understand and discuss the mathematical theory behind neural networks.</li><li>Created a vanilla neural network without machine learning libraries in Python. Ran experiments to test performance with different parameter settings.</li><li>Organized findings effectively in a report.</li></ul>	Sept. 2023 – January 2024 Aurora, ON

## AWARDS

<b>University of Waterloo Chem 13 News Contest</b> <ul style="list-style-type: none"><li>98<sup>th</sup> in Canada</li></ul>	2024
<b>University of Waterloo Avogadro Contest</b> <ul style="list-style-type: none"><li>Top 10% in Canada</li></ul>	2023
<b>Ontario Association of Physics Teachers Contest</b> <ul style="list-style-type: none"><li>13<sup>th</sup> in Canada</li></ul>	2023

## SKILLS & INTERESTS

**Skills:** MATLAB, C++, Python (Keras, TensorFlow), HTML/CSS, Java, L<sup>A</sup>T<sub>E</sub>X  
**Interests:** Machine learning, Quantum algorithms, Wildlife photography