

# HETAV PANDYA

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## EDUCATION

### University of Toronto

Toronto, CA

Bachelor of Applied Science and Engineering, Computer Engineering *GPA: 3.97* Sep 2019 - May 2024

## WORK EXPERIENCE

### Intel Canada - [Data Center and AI Team]

Toronto, CA

*Software Engineering Intern*

May 2022 - May 2023

- Developed a netlist writer for upcoming Quartus Prime releases to support a new database model.
- Developed an automated testing framework to functionally verify netlist between different stages.
- Worked alongside the router team to create a fix for a business-critical customer issue affecting our top model Agilex FPGAs.

### Bell Canada - [Big Data and AI Team]

Toronto, CA

*Data Scientist Intern*

May 2021 - Aug 2021

- Data querying using Apache Spark, Hadoop, and Impala. Data exploration using Python.
- Converted Impala queries to Trino reducing the time taken by 60% on average.
- Developed an automated system to detect potential flaws in new version releases, reducing detection time from 3 weeks to 15 minutes. Results were shared using MicroStrategy BI.

### General Motors Canada (GM)

Toronto, CA

*Machine Learning Model Developer*

May 2021 - July 2021

- Worked on automating data collection pipeline with data pre-processing and image augmentation.
- Deployed an object detection model using transfer learning on 'my\_ssd\_mobnet'.
- The model was optimized for real time detection with a mean Average Precision (mAP) of 0.7.

### Faculty of Information, University of Toronto

Toronto, CA

*Data Analyst Research Intern*

Jan 2021 - May 2021

- Analyzed the effects of machine learning on the future path of job creation and disruption.
- Collected raw data from research conferences, package databases and via webscraping.
- Pre-processed data and generated visualizations for further analysis.

## SKILLS

Programming Languages:	Python, C++, C, Kotlin, JavaScript, Go
Machine Learning:	TensorFlow, PyTorch, OpenCV, KubeFlow
Hardware Design:	Verilog, ARM Assembly, Quartus Prime
Data Analysis:	Hive, Impala, Trino SQL, Power BI, MicroStrategy BI, Hadoop
Project Management:	JIRA, Confluence, Agile - SCRUM, Git, GitHub, Perforce

## EXTRA CURRICULARS

### UofT Engineering Society

Toronto, CA

*ECE Board of Director Representative*

April 2022 - April 2023

- Elected to represent 700+ students at the highest level of governance in the student-run Engineering Society.
- As a Board Member, I collaborate with other representatives to make executive decisions about the operation of the Society that offers services to 6000+ students at the University of Toronto.

### GitHub Education Program

Toronto, CA

*GitHub Campus Expert*

September 2022 - Present

- Selected as one of the 65 new campus experts globally in the 2022 cohort.
- Part of the organizing team that hosted the first GitHub Field Day in Canada.
- Organized a workshop on transfer learning and several Open-Source workshops on campus.

**UofT Machine Intelligence Student Team**  
*Co-President*

Toronto, CA  
July 2021 - July 2022

- Managing a team of 180+ active members spread across nine departments using JIRA software.
- Driving collaboration with different clubs and organizations like the Engineering Hatchery, UCL Artificial Intelligence Society, AI@MIT, Harvard Open Data Project and many more.
- Led the team to develop two introductory ML courses: MIST101 and MIST102.

PROJECTS

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**E-Motion** *Python, OpenCV, Selenium* <https://tinyurl.com/cyhtt8jr>  
A computer vision suite that enables users to play games, read e-books and listen to music using hand gestures. It secured the second place at UofT Hacks VIII

**ECE-Hustler** *C language, ARM Assembly, DE1-SoC board* <https://tinyurl.com/d38wrur3>  
In this game you are an ECE student in the 2nd year at UofT trying to dodge the hurdles we faced! It is an obstacle course compiled on our custom-built ARM processor and displayed on a VGA display.

**COVID-19 InfoBot** *Python, Selenium, Speech Recognition* <https://tinyurl.com/ub8uyavj>  
A voice assistant that provides users with credible and updated information regarding the COVID-19. It won the Wolfram award at the Hack\_The\_Virus Hackathon.

**Hands2Ears** *Python, OpenCV, Speech Recognition* <https://tinyurl.com/65ftaddu>  
A neural network model that helps converting sign language (ASL) to speech in real time. It was chosen as the Bloomberg Challenge winner and second best project in NSBE Hacks 2020.

**Personal Website** *HTML5, CSS3, Javascript* <https://pandayah5.github.io/>  
A more detailed and informal description of who I am. Built using raw HTML, CSS and PHP from scratch.

**Magnum Opus** *Python, Neural Style Transfer, OpenCV* <https://tinyurl.com/8j9hs2hx>  
My personal journey of finding “art in mathematics” and “mathematics in art”.

AWARDS

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**Microsoft Discover AI Challenge on AI Ethics - First Prize** Microsoft  
Recognized for the AI Ethics Pipeline built during the Hackathon. June 2021

**University of Toronto Dean's Honor Award** University of Toronto  
Awarded for my consistent academic standing above 3.5 GPA in all semesters. May 2021

**UofT Hacks VIII - Second Prize** UofT Hacks  
Recognized for my project E-Motion and my work on computer vision enabled remote monitoring and control. Feb 2021

**Edward S. Rogers Dept. of Computer Eng. Top Student Award** University of Toronto  
Awarded for being amongst the top three students in the Department of Electrical and Computer Engineering. Sept 2020

**Wallberg Undergraduate Scholarship Award** University of Toronto  
Awarded for being amongst the top four students in the Faculty of Engineering, based on academic performance. Sept 2020

**Wolfram Award** Hack The Virus Hackathon  
Recognized for my project COVID-InfoBot based on speech controlled information system. Aug 2020

**NSBE Hacks 2020 - Second Prize** NSBE UofT  
Recognized for my project Hands2Ears, real time ASL to speech conversion. Feb 2020

**Bloomberg First Time Hack Winner** Bloomberg  
Recognized for my project Hands2Ears - "First Time Hack" sub-category at NSBE Hacks 2020. Feb 2020

**State Topper** Central Board of Secondary Education  
Awarded for receiving the highest grade in the province/state of Gujarat for the Annual Grade-12 Examination in India. March 2019

**University of Toronto International Scholar's Award Scholarship** University of Toronto  
This prestigious award is provided to students who demonstrate excellence in academics and a strong desire to learn by participating in a wide range of extracurriculars. May 2019