

# HETAV PANDYA

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Date of Birth: 05 December 2001

Languages known: English, Hindi, Gujarati

## EDUCATION

**MARCH 2017 – APRIL 2019**

**HIGH SCHOOL, THE NEW TULIP INTERNATIONAL SCHOOL, INDIA – 98.20%**

Completed my senior year in high school with mathematics, physics and chemistry being my core subjects. My final score for all my subjects is as follows:

- Chemistry – 100/100
- Physics – 99/100
- Physical Education – 100/100
- Mathematics – 99/100
- English – 93/100

Awarded the “Student of the Year” trophy for securing the first rank in my state (Gujarat) in AISSE (All India Senior School Certificate Examination), conducted by the Central Board of Secondary Education of India in March 2019.

**SEPTEMBER 2019 – PRESENT**

**COMPUTER ENGINEERING – AI MINOR, UNIVERSITY OF TORONTO, CANADA – 4.0 GPA**

I am an engineering student at the University of Toronto and my courses include:

- Software Communication and Design
- Programming Fundamentals
- Digital Systems and Signals
- Computer Organization
- Advanced Engineering Mathematics

## SKILLS

- C and C++ Programming
- Competitive programming [ 10<sup>th</sup> Rank in University of Toronto Clan on [CodeWars](#) ]
- Machine learning integrated Computer Vision
- Group project management with MS Project
- Python Programming
- MATLAB, MySQL, Teradata SQL [Data Analysis]
- HTML5, CSS3 and JavaScript.
- Advance mental mathematics – UCMAS
- Public speaking

## EXTRA-CURRICULARS

- Data Analyst and Google Analytics Lead at the Blue-Sky Solar Racing Team at the University of Toronto.
- Study Hubs Community Contributor at the University of Toronto, St George campus.
- Asst. Vice-President (Academics) of the University of Toronto Machine Intelligence Student Team [UTMIST].
- Digital Graphics Designer at UofT Canadian Association of Food Engineers.
- Participated in NewHacks 2020, NSBE Hacks 2020, COVID – 19 Hack Challenge, Dream Hacks 2020.
- Leader of a team of six members that analyzed the impact of floods on the tourism industry of the Toronto Island and designed an effective solution that was financially viable.
- Project Manager of a team of six members that designed a lightweight portable lift that helps quadriplegics to transfer between wheelchair and elevated surfaces like bed.

## PERSONAL PROJECTS

- [COVID-19 InfoBot](#) – Wolfram Award at COVID Hack Challenge – Python, Web Scrapping, Speech Recognition: A voice assistant that provides users with credible and updated information regarding the COVID-19.
- [Machine Learning Data Bot](#) – Python, Selenium, Web Automation: You no longer must rely on available data sets, the bot generates image data set of desired size for you.
- [Hands2Ears](#) – Bloomberg Challenge Winner and 2<sup>nd</sup> in NSBE Hacks 2020 – Python, OpenCV, Speech Recognition: It uses neural networks to convert sign language to human speech in real time.
- [Drowsy Driver Detector](#) – Python, OpenCV, Face Recognition - Viola Jones ML algorithm: The program alerts the driver if they are drowsy thereby preventing fatal crashes.
- [Personal Website](#) – HTML5, CSS3, PHP: A more detailed and informal description of who I am. Built using raw HTML, CSS and PHP from scratch.
- [My other projects](#) on Computer Vision, Digital Art, Data Analysis, Web Automation and Machine Learning.

## WORK EXPERIENCE

- Asst. Vice-President (Academics) at UofT Machine Intelligence Team (UTMIST) **[August 2020 – Present]**
  - Organizing bi-weekly workshops for MIST101 course - reviewing ML research papers - providing technical assistance to project developers – Teaching ML concepts in MIST101 workshops
- Junior Software Engineer – iFlow Tech **[May 2020 – August 2020]**
  - Worked from start-to-deployment of a client project that automates inventory management and implements machine-learning to optimize stocking cycles.
  - Part of a front-end team to develop a website as per our client's specifications and requirements.
- Data Analyst in Blue Sky Solar Racing Team, Canada **[Jan 2020 – Present]**
  - Used MATLAB and data visualization techniques to analyze and improve the performance of Viridian (The solar car that ranked 11<sup>th</sup> in the world solar challenge 2019).
  - Developed strategy to significantly reduce time taken to complete the race for the upcoming the World Solar Challenge 2021 in Australia.
- Software Content Specialist - DEEP - Engineering Outreach, University of Toronto **[Feb 2020 – May 2020]**
  - Developed the “Computer Imaging” active - learning course that explores the OpenCV library in python.
  - Developed the “Data Analytics using MATLAB” active - learning course.

## HONORS AND AWARDS

- |   |                 |
|---|-----------------|
| • Wolfram Award at the COVID-19 Hackathon Challenge                               | (2020)          |
| • 2 <sup>nd</sup> Rank in NSBE Hacks 2020 organized by NSBE University of Toronto | (2020)          |
| • 1 <sup>st</sup> Rank in Bloomberg First Time Hack Challenge                     | (2020)          |
| • University of Toronto Dean’s Honor Award  | (2020)          |
| • Central Board of Secondary Education Grade 12 - Gujarat State Topper            | (2019)          |
| • University of Toronto International Scholar’s Award scholarship                 | (2019)          |
| • HackerRank Golden Badge Award in Python and Silver Badge Award in C.            | (2020)          |
| • “Tallent-ex Competition” State Rank - 7, Zonal Rank - 9, All India Rank - 139   | (2018)          |
| • National Science Olympiad Gujarat State Rank - 23                               | (2017)          |
| • Rotary International Inter-School Quiz 2nd position                             | (2017)          |
| • Indian National Talent Search Examination Merit Certificate                     | (2017)          |
| • Certificate for outstanding performance in ASSET [Science and Mathematics]      | (2017)          |
| • Scholar certificate for the annual academic session                             | (2016)          |
| • Distinction – All India Mathematics and Science Olympiad                        | (2015)          |
| • Merit Academic Excellence Award   | (2014 and 2015) |
| • Platinum award in SIMS Mathematics contest                                      | (2012)          |
| • Merit award in SIMS science contest   | (2012)          |