

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.

- 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 AISSCE** (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 the recipient of “**Edward S. Rogers Department of Electrical and Computer Engineering Top Student Award**”. I also received the “**Wallberg Undergraduate Award**” for being amongst the **top four students in the engineering faculty in 2019-20**, based on academic performance. My courses include:

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

SKILLS

- C, C++ and Python Programming
- Competitive Programming [10th Rank in University of Toronto Clan on [CodeWars](#)]
- Machine Learning Integrated Computer Vision
- Group Project Management
- Linux Operating System, Git and GitHub
- MATLAB, MySQL, Teradata SQL [Data Analysis]
- HTML5, CSS3, Verilog and JavaScript.
- Advance Mental Mathematics – UCMAS
- Public Speaking, Creative design

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 2nd 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.
- [Magnum Opus](#) – My journey of finding “art in mathematics” and “mathematics in art”.
- [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 Student 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 11th 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

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|---|-----------------|
| • Edward S. Rogers Sr. Department of Computer Engineering Top Student Award | (2020) |
| • Wallberg Undergraduate Scholarship Award | (2020) |
| • Wolfram Award at the COVID-19 Hackathon Challenge | (2020) |
| • 2 nd Rank in NSBE Hacks 2020 organized by NSBE University of Toronto | (2020) |
| • 1 st 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) |