HETAV **PANDYA**

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Certifications: https://hetavpandya.me/certificates.html
Online Portfolio: https://hetavpandya.me

Languages Known: English, Hindi, Gujarati

EDUCATION

SEPTEMBER 2019 – PRESENT

COMPUTER ENGINEERING – AI MINOR, UNIVERSITY OF TORONTO, CANADA – 3.96/4.0 GPA

I am an undergraduate student in the Faculty of Engineering at the University of Toronto and the recipient of:

- "***Edward S. Rogers Department of Electrical and Computer Engineering Top Student Award***"
  Awarded to top three students in the Department of Electrical and Computer Engineering
- "***Wallberg Undergraduate Award***"
  Awarded to top four students in the Faculty of Engineering, based on academic performance

SKILLS

- **C, C++, Python Programming**
- Competitive Programming [10th in UofT **CodeWars** clan]
- **Machine Learning Integrated Computer Vision**
- Public Speaking, Creative design
- **Verilog HDL, Compiler & FPGA Design, Quartus Prime**
- **Linux, Bash, Agile (SCRUM & XP), Git and GitHub**
- HTML5, CSS3 and JavaScript. [Web development]
- **MATLAB, MySQL, Hadoop, Spark [Data Analysis]**
- Advance Mental Mathematics – UCMAS
- **JIRA for Group Project and Event Management**

WORK EXPERIENCE

- **Data Scientist Intern** – ***Bell Canada [Big Data and AI Team]*** ***[May 2021 – August 2021]***
  - Querying data using Apache Spark, Hadoop, and Impala. Data exploration using Python and R.
  - Collaborate with cross-departmental teams to understand the technical metrics present in data.
  - Feature importance ranking using decision trees and statistical correlation measures.
  - Root cause analysis (RCA) to identify potential issues and opportunities for improvement.
  - Development of an automated system to analyze dynamically collected data on a periodic basis.
- **Co-President** – ***UofT Machine Intelligence Student Team*** **(UTMIST)** ***[July 2021 – Present]***
  - Managing a team of 180+ active members spread across nine departments using JIRA software.
  - Driving collaboration with different clubs to host academic and industrial events.
- **Vice-President (Academic Dept.)** – ***UofT Machine Intelligence Student Team*** **(UTMIST)** ***[Aug. 2020 – July 2021]***
  - Developing and organizing bi-weekly workshops for ***MIST101 – Introduction to ML course***.
  - Managing event planning and execution of academic events at UTMIST.
  - Previously held the position of Assistant Vice President and was promoted in January 2021.
- **Machine Learning Model Developer** – ***General Motors (GM)*** ***[May 2021 – July 2021]***
  - Worked on an automated data collection pipeline with data pre-processing and image augmentation.
  - Made a complete machine learning pipeline for object detection and built a custom object detection model with high accuracy and performance to facilitate real time detection.
- **Data Analyst Research Assistant** – ***Faculty of Information, University of Toronto*** ***[Jan 2021 – May 2021]***
  - Collected raw data from credible sources, pre-processed data, and generated time-series visualizations.
  - Developed cross-linking relationships that help predict the shifting landscape for organizations and workers and analyze the effects of machine learning on the future path of job creation and disruption.
- **Software Content Specialist** – ***Engineering Outreach, University of Toronto*** ***[Feb 2020 – May 2020]***
  - Developed the "Computer Imaging using Python" and the "Data Analytics using MATLAB" courses for the upcoming annual DEEP Program in Summer 2021|DEEP is one of the outreach programs UofT offers.

PERSONAL PROJECTS

- **E-Motion** – Overall 2nd Award at UofT Hacks VIII– Python, Computer Vision, Motion Sensing:
  A computer vision suite that enables users to play games, read e-books and listen to music using hand gestures.
- **Machine Learning Data Bot** – Python, Selenium, Web Automation:
  You no longer must rely on available datasets; the bot auto generates image data sets through web scrapping.
- **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 uses an eye detection to alert the driver if they are drowsy thereby preventing fatal crashes.
- **Personal Website** – HTML5, CSS3, JavaScript:
  A more detailed and informal description of who I am. Built using raw HTML, CSS and PHP from scratch.
- **Magnum Opus** – Python3, Neural Style Transfer, OpenCV and lots of mathematics:
  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.

EXTRA-CURRICULARS

- Participated in New Hacks 2020, NSBE Hacks 2020, COVID – 19 Hack Challenge, Dream Hacks 2020, etc.
- Invited as a judge at Microsoft Discover AI Challenge on Natural Language Processing (NLP).
- Content developer and co-instructor of the **MIST101/102 course – Introduction to Machine Learning.**
- Graphic Designer at UofT Canadian Association of Food Engineers.
- Data and Strategy Analyst at Blue Sky Solar Racing Design Team at University of Toronto.
- Leader of an engineering project team that analyzed the impact of floods on the tourism industry of the Toronto Island and designed a financially viable solution which was then presented to the Mayor of the Islands.
- Project Manager of the team that designed a lightweight portable lift that helps quadriplegics to transfer between wheelchair and elevated surfaces like bed. The design was customized for the current Canadian Research Chair in Synthetic Biology - Prof. Michael Garton, who actively collaborated with our team.

HONORS AND AWARDS

- *University of Toronto Dean's Honor Award – Winter 2021* (2021)
- Microsoft Discover AI Challenge on AI Ethics – First Prize (2021)
- *UofT Hacks VIII 2021 – Second Prize Overall* (2021)
- *Edward S. Rogers Sr. Department of Computer Engineering Top Student Award* (2020)
- *Wallberg Undergraduate Scholarship Award* (2020)
- *Wolfram Award at the Hack_The_Virus_2020 hackathon* (2020)
- *2nd Rank in NSBE Hacks 2020 organized by NSBE University of Toronto* (2020)
- *1st Rank in Bloomberg First Time Hack Challenge* (2020)
- *University of Toronto Dean's Honor Award – Fall and Winter 2020* (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 Award* (2017)
- *Certificate for outstanding performance in ASSET Olympiad [Science and Mathematics]* (2017)
- *Scholar certificate for the annual academic session - Top 1% of the class* (2016)

Click here to view my certifications