



# Zeel Paresh Mehta

Master of Technology  
in Computer Science Engineering  
Indian Institute Of Technology, Ropar

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Master of Technology	Indian Institute of Technology, Ropar	8.48	2020-2022
Bachelor of Technology	Gujarat Technological University	8.27	2016-2020
Senior Secondary	Gujarat Secondary and Higher Secondary board of Education	83%	2016
Secondary	Gujarat Secondary and Higher Secondary board of Education	89%	2014

## EXPERIENCE

- **Deloitte USI** July 2022 - current  
*Analyst* Hybrid
  - Completed an 8-week training programme at the AI academy that involved working with SQL, Hadoop, Hive, PowerBI, GCP, and a number of machine learning methods. Presently working for client on data migration project which includes working with teradata and snowflake.

## PROJECTS

- **Master Thesis Project: Neural Network based Pneumonia Infected Region Identification** June 2021 - May 2022  
*Faculty: Dr. Deepti R. Bathula*
  - This project involved application of various object detection techniques such as RCNN, Faster RCNN, Mask RCNN and RetinaNet on pneumonia data set, available on Kaggle. Further knowledge distillation technique was applied for model compression.
- **Collage Creation using skimage library** Aug 2021 - Sept 2021  
*Faculty: Dr. Abhinav Dhall* Github
  - This project uses techniques like HOG feature detection and Chebysev distance, thereby creating collage of six images having less variation in the centre and others on the boundary.
- **Working with Support Vector Machines** Apr 2021 - May 2021  
*Faculty: Dr. Narayanan C Krishnan* Github
  - Implementation of MultiClass Linear SVM using Hinge Loss and Gradient Descent on 2D Toy & CIFAR-10 data sets.
  - Implementation Non Linear SVM on non-linearly separable 2D Toy dataset.
- **External Sorting with N-way Merge Algorithm** Mar 2021 - Apr 2021  
*Dr. Vishwanath Gunturi* Github
  - Implementation of External Sort Algorithm with N-way merging used in secondary memory on a synthetic data set of 50k records.
- **AI based projects** Mar 2021 - Apr 2021  
*Dr. Shashi Shekhar Jha* Github
  - Involved projects like solving N Queen problem using Genetic algorithm and finding path in the maze using BFS, DFS and A\* algorithms.
- **My Shell** Dec 2020 - Jan 2021  
*Faculty: Dr. Shrishendu das* Github
  - "My shell" a custom linux shell developed in C language for copy, move, help and ls commands.

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python
- **ServerSide:** Worked on HPC (GPU) containers
- **Others:** HTML/CSS, Tensorflow, Pandas, Skimage, Keras, L<sup>A</sup>T<sub>E</sub>X, Anaconda, Linux, Google Colaboratory
- **Simulator:** Venus

## KEY COURSES TAKEN

- **CSE & Maths:** Machine Learning, Artificial Intelligence, Computer Vision, Algorithm & Data Structure, Operating System and DBMS.
- **Online Certifications:**
  - NPTEL: Secured ELITE ( $\geq 60$ ) in Discrete Mathematics, 2019
  - NPTEL: Secured ELITE ( $\geq 60$ ) in Theory of Computation, 2019

## MISCELLANEOUS

- **GATE**, Scored AIR 481 with 99.506 percentile in Gate Exam 2020
- **Volunteer**, in IIT Ropar's NGO "Pehchan Ek Safar" 2020-21
- **Volunteer**, in Zonal Youth festival "Xitij 2017" 2017
- **Volunteer**, in "Digital India Hack-a-thon" 2016