

Education

Indian Institute of Technology Kanpur

BACHELOR OF SCIENCE IN COMPUTER SCIENCE ENGINEERING

• Cumulative Performance Index (CPI) - 9.7/10.0

Kanpur, Uttar Pradesh

Delhi

Jul. 2018 - May 2022 [Expected]

Sardar Patel Vidyalaya

CENTRAL BOARD OF SECONDARY EDUCATION, CBSE

- 2018 12th Grade **98.2%** Score • 2016 10th Grade - **10.0/10.0** CPI
- Honors & Awards

2020	A* grade in 6 courses, Awarded to top 2% students based on Academic performance in a course	IIT Kanpur
2019	Academic Excellence Award, Awarded to top 5% freshmen based on Academic performance	IIT Kanpur
2018	Silver Medal , 50 th International Chemistry Olympiad	Czech Republic and Slovakia
2018	All India Rank 176, Joint Entrance Examination Advance, 200,000 candidates	India
2018	All India Rank 57, Joint Entrance Examination Mains, 1,000,000 candidates	India
2018	All India Rank 8, Vellore Institute of Technology Engineering Entrance Examination, 200,000 candid	ates India
2017	Attended OCSC camp in Astronomy , HBCSE, about 50 students selected from 40,000 applicants	India
2016	All India Rank 97, KVPY Scholar, Indian Institue of Science and Government of India	India
2016	NTSE Scholar, National Council Of Educational Research And Training and Government of India	India

Internship Projects

Proprietary definition of Global Health & Safety Index

Bengaluru

METRIPPING TECHNOLOGIES

April 2020 - May 2020

- · Using scrapy, scrapy-splash and selenium; crawled various websites over the internet and extracted data related to COVID-19 statistics, population, air-pollution, and general healthcare from across the globe.
- · Using above extracted data, created multiple metrics to quantify the health and safety of a region.
- Performed necessary **back-end** processing to map the metrics of regions to the existing database of cities.
- Created a modal to display the various features at the **front-end** representation

Activity Classification and Recommendation

Bengaluru

MeTripping Technologies

May 2020 - June 2020

- Theme Allocation Approach 1: cleaned, pre-processed and lemmatized the available text description data and performed LDA Topic Modelling on it.
- Theme Allocation Approach 2: using existing hierarchical groupings of the data, performed a theme allocation by assigning theme scores to each of the groups.
- Clustering: Using DBSCAN algorithm, created a program to dynamically cluster activities together at a city level according to their latitude and longitude data.
- Address extraction: Created an Address Parser to extract text address from the text description of the activity

Coursework

- Data Structures and Algorithms*
- Discrete Mathematics for Computer Science
- Computer Organizations
- Logic for Computer Science
- Software Development and Operations
- Machine Learning by Stanford**
- Neural networks and Deep Learning**
- Improving Deep Neural Networks**

- Fundamentals of Programming*
- Real Analysis and Multivariable Calculus*
- Linear Algebra and Ordinary Differential Equations
- Complex Variables
- Introduction to Economics
- Structuring Machine Learning Projects**
- Convolutional Neural Networks**
- Sequence Models**

Received A grade **Coursera Courses

Technical Skills

Languages (Familiar) Python, C, C++, HTML

Languages (Basic) Matlab, Octave, Bash, CSS, Java, Javascript

Tools MySQL, ŁTĘX, Verilog, Tensorflow, Scrapy, Selenium, MongoDB, Git, Gensim

Platforms Linux, Windows

Self Projects

Created a Path-finding Visualizer Project

- Using the **pygame** library, built a python program to find the shortest path between 2 points on a 2-D grid avoiding obstacles.
- The project helps visualise how the Dijkstra's algorithm actually proceeds using the grid.

• Designed A Deep Neural Network of Variable Architecture

- Developed a Python program to train a deep neural network with visual data input and then classify all test inputs based on the trained network.
- An implementation of the software trained on about 200 images of cats gave an 80% accuracy in the testing phase.

• Developed a Software to implement Commands by identifying Hand Gestures

- Built a deep neural network model using Tensorflow to identify numbers from 0 to 5 in sign language.
- Works in real-time using visual input for Webcam to perform certain operations depending on the sign identified.