

Sanchit Agrawal

THIRD YEAR UNDERGRADUATE · INDIAN INSTITUTE OF TECHNOLOGY KANPUR

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Education

Indian Institute of Technology Kanpur

BACHELOR OF SCIENCE IN COMPUTER SCIENCE ENGINEERING

- Cumulative Performance Index (CPI) - **9.7/10.0**

Kanpur, Uttar Pradesh

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

Delhi

Honors & Awards

- 2020 **A* grade in 6 courses**, Awarded to top 2% students based on Academic performance in a course
- 2019 **Academic Excellence Award**, Awarded to top 5% freshmen based on Academic performance
- 2018 **Silver Medal**, 50th International Chemistry Olympiad
- 2018 **All India Rank 176**, Joint Entrance Examination Advance, 200,000 candidates
- 2018 **All India Rank 57**, Joint Entrance Examination Mains, 1,000,000 candidates

IIT Kanpur

IIT Kanpur

Czech Republic and Slovakia

India

India

Internship Projects

Proprietary definition of Global Health & Safety Index

ME TRIPPING TECHNOLOGIES

Bengaluru

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

ME TRIPPING TECHNOLOGIES

Bengaluru

May 2020 - June 2020

- *cleaned*, *pre-processed* and *lemmatized* the available text description data and performed **LDA Topic Modelling** on it.
- Using **DBSCAN** algorithm, created a program to dynamically cluster activities together at a city level according to their latitude-longitude data.
- 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*
- *Fundamentals of Programming**
- *Real Analysis and Multivariable Calculus**
- *Linear Algebra and Ordinary Differential Equations*
- *Complex Variables*
- *Deep Learning Specialization***

Received A grade

**Coursera Online Courses

Technical Skills

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

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

Tools MySQL, ~~LaTeX~~, 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 visualize the Dijkstra's algorithm finding the shortest path between 2 points on a 2-D grid while avoiding obstacles.
- **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.