

Sanchit Kabra

+91 8379888879 [email](#)

## Education

2020-2024(expected)

Bachelors in Computer Science and Information Systems.

### **BITS Pilani, Pilani Campus**

Recipient of **Yuva Shiksha Award** at Somnath, India for achieving the first place in Boards in Amravati division and achieving second place in Maharashtra state.

## Technical skills

Python, C, C++, MATLAB, R, SQL, HTML, Javascript, LaTeX, MS Office, AWS, AUTOCAD,linux

## Projects

June 2021 - present

### **Creating a first of its kind HSI dataset using unsupervised learning**

Mentor: Pratik Narang

Using Generative Adversarial Networks to extrapolate normal RGB images to multiple bands and then verifying the images using GANs.

Jan 2021 – March 2021

### **Designing an automated answer checking model sponsored by the institute**

Applied line segmentation, word recognition to implement handwriting recognition.

Jan 2022 – May 2022

### **Multimodal Palmprint verification**

Mentor: Pawan Ajmera

Created a custom ANN for multimodal finger recognition system using a novel WLGC operator and bank of differential filters.

March 2022 - present

### **Object Detection using HSI**

Mentor: Pratik Narang

Experimenting on the merits of use of HSI for object detection on roads to monitor traffic.

Implemented Differentially Private Stochastic Gradient Descent using TensorFlow's Privacy library.

## Volunteer experience/Position of Responsibilities

**Election Commission:** Selected in an independent committee of 3 from 1100 students that works closely with chief warden and director of college to oversee college elections and advised Student Council in their workings.

**NSS:**                      Mentored underprivileged students for their academics.  
Mentored over 150 underprivileged students over career prospects.

**ACM :**                      Core member of ACM BITS Pilani, Students chapter that aims to  
promote Computer Science and its related culture in the campus.  
Part of ACM Summer explore program of theoretical CS track  
mentored by Prof. Anil Maheshwari from Carlton University

**Relevant coursework/MOOCs**

Object-Oriented Programming

Probability and Statistics

Data Structures and Algorithms

Database Management Systems

MIT 6.006 - Introduction to Algorithms

CS231n: Convolutional Neural Networks for Visual Recognition

CS860 : Algorithms for Private Data Analysis (by Gautam Kamath at U of Waterloo)