

# Sanskriti Khare

CSE Student at SRMIST | 2nd Year

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## PROFILE

Passionate coder and an aspiring Data Scientist. Eager to use high-level analytical and critical thinking to solve problems, and optimise solutions to achieve team goals. Machine learning enthusiast, looking forward to developing skills in this industry to be ready for the corporate-world challenges.

## WORK EXPERIENCE

### Code Chef Student Chapter, Chennai — *Data Science Associate*

AUGUST 2020 - PRESENT

- Building chatbot for the club's official website
- Working on team-based projects related to data science

### Cognitive Applications Research Lab, Chennai — *R&D Specialist*

AUGUST 2020 - SEPTEMBER 2020

- Got guided on presenting a project on a research paper
- Published a blog for my mini project on CARL blogspot, deployed using markdown language ([SEE THE BLOG](#))

### SRM Team Robocon, Chennai — *Robotist*

JULY 2019 - JULY 2020

- Design and fabrication of PCBs and integration of the sub-systems of robots.
- Proof of concept for ABU Robocon 2020, qualified for Round 2.

## EDUCATION

### SRM Institute Of Science & Technology, Chennai — *B.Tech CSE*

JUNE 2019 - PRESENT

- Holder of SRM Scholarship for Academic Excellence 2020
- 9.75 CGPA holder in first year.

### The Shishukunj International School, Indore — *High School Diploma*

JULY 2016 - JUNE 2019

- Shishukunj Scholarship holder for academic years 2017-2018, 2018-2019
- PCM aggregate Class 12 : 92.7% | Class 10 : CPGA 10
- Certificate from Sahodaya (cluster of CBSE schools all over India) for scoring 100% in Commercial arts in grade 12

## SKILLS

C

C++

Python

OpenCV

SQL

Git

MongoDB

Augmented Reality

## COURSES

**Python for Data Science** - IBM  
Cognitive Learning.ai

**Python Core and Advanced** -  
Udemy

## AWARDS

**RoboFiesta National Level  
Championship Finalist** -  
Organised by IIT Gandhinagar

**Vigyan Manthan Yatra** -  
Honour for academic  
excellence by the Madhya  
Pradesh Government.

**IISER Bhopal Quiz Runner Up**  
- held during "Understanding  
Science" Summer Camp

**National Children's Science  
Congress State Representative**  
- organised by NCSTC, DST,  
Government of India

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## PROJECTS

### Exploratory Data Analysis on COVID 19 dataset

[SEE PROJECT](#)

- Visualised the data with the help of box plots, pie diagrams, bar graphs and line graphs

### Memory Game using Speech

[SEE PROJECT](#)

- A python script integrated with google speech recognition API, to check one's memorising power
- Use of python text to speech module to make the game interactive

### DAVE (Unmanned Ground Vehicle)

[SEE PROJECT](#)

- Fabrication of the interfacing board and connecting all the other subsystems on to the board (included GPS module, Raspberry pi and Arduino)
- Proof of concept

### Fabrication of PCB from scratch using Altium Designer

[SEE PROJECT](#)

- PCB for L298N IC Motor Driver on the Altium Designer software
- Fabricated the PCB on a copper plate using the carbon imprinting technique and FeCl<sub>3</sub> solution

### Harry Potter theme-based AR Facemask

[SEE PROJECT](#)

- An instagram filter depicting sorting ceremony during pandemic
- Use of 3D objects, particle system, animation sequences, randomiser, sprite sheet and audio effects, all woven together with logics, gets executed on the basis of interactivity

### Automatic Plant Watering System

[SEE PROJECT](#)

- IoT based project for operating mini submersible pump to water plants
- Use of MOSFET (as a switch), moisture sensor and Arduino

### Circuitry for Quadcopter

[SEE PROJECT](#)

- Subsystem design and circuitry
- Participated in the Aaruush 2019 Quadcopter Challenge

## EXTRA-CURRICULAR ACTIVITIES

Student volunteer in Smart India Hackathon 2019

Volunteered in the Corporate Strategy and Implementation team for Aaruush'19

Won a consolation prize and a cash prize in All India G.K. Test

Had been awarded a gold medal by the Cancer Aids Society for fundraising

## HOBBIES

Singing

Painting, sketching

Playing guitar

## LANGUAGES

English

Hindi

Japanese

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## Three-Wheeled Omni Drive

[SEE PROJECT](#)

- Fabrication of interfacing board and assembly
- Use of Bane Bots, Hercules Motor Driver, framed on a Aluminium chassis, programmed with Arduino

## CO-CURRICULAR ACTIVITIES

### **Hackathon - Hac'KP 2020** — *Government of Kerala*

JULY 2020 - AUGUST 2019 |

- Developed a working GUI+web-based prototype for policing the post COVID world using computer vision and face recognition
- Reached Top 20 in the semi-finals out of 100+ shortlisted teams

### **Workshop - Introduction to Machine Learning: Object Recognition and NLP with TensorFlow** — *Scaler Edge*

JULY 2020

- Basics of ML, linear regression, neural networks, CNN, use of TensorFlow for Natural Language Processing
- Recognition of hand-written single digit numbers using Keras
- Prediction of house prices using using Boston dataset