



### **EDUCATION**

Course	CGPA/%	Institution	Year
B. Tech CSE	9.90	Indian Institute of Technology, Madras	2021-Present
$HSC~12^{th}$	98.17	Pace Junior Science College Andheri, Mumbai	2019-21
ICSE $10^{th}$	98.8	Lilavatibai Podar High School, Mumbai	2019

### **PROJECTS**

WiFi Tomography\*

May'23 - Present Python

Project Under Prof. Ayon Chakraborty

• Working on computational optimisation of Tomographic Imaging (using WiFi) for outdoor and indoor drone appli-

## **Reading Project and Presentation**

CS6122 Course Project - Prof. B. V. R. Rao



• Presented a paper on "A Survey of Deep Learning Techniques for Autonomous Driving" by S. Sallab et al. and discussed the various deep learning techniques used in autonomous driving

# CC - CENDY algorithm

Project under Prof. M. Narayanan

C++

- Studied a research paper on Closeness Centrality and APL in Dynamic Graphs (descr. below) and implemented its algorithm in C++
- C. -C. Yen, M. -Y. Yeh and M. -S. Chen, "An Efficient Approach to Updating Closeness Centrality and Average Path Length in Dynamic Networks" 2013 IEEE 13th Intl. Conf. on Data Mining

## **SOFTWARE SKILLS**

- Languages: C++, C, HDL (Verilog), Python, Java, HTML, x86, RISC and 8085 ASM, CSS, R
- Tools: TI CCS, Git, LATEX, AutoCAD, GDB
- Libraries: TI RTOS, NumPy, PyLops, Matplotlib

## **EXTRACURRICULAR ACTIVITIES**

- Sports: Taekwondo Red Dan II Belt, Awarded Best Athlete U14 at School, NSO Athlete at IITM
- Mentored freshmen, personally and academically, under Saathi, IIT Madras
- Avid book reader and Tabla player

## **SCHOLASTIC ACHIEVEMENTS**

- Secured AIR 5 in IEE Mains out of 1 million students
- Secured AIR 161 in IEE Advanced
- Secured AIR 10 in Indian Statistical Institute Exam
- Secured AIR 21 in INChO and attended IChO Camp
- Awarded KVPY Fellowship (2021) with AIR 338
- Won 1<sup>st</sup> place in Mimamsa '22 at IISER Pune  $4^{th}$  place in Chemenigma '22 at IISC Bangalore & Silver Medal in Homi Bhabha Science Competition (conducted in Maharashtra)

### **EXPERIENCE**

- Member, Team Avishkar Hyperloop 6.0 | CFI IITM
  - Participated in the prestigious European Hyperloop Week representing IITM & India
  - Part of the design and implementation team of the Main Control Unit and Nagivation Unit of our Pod
  - Used RTOS and comm. protocols like MQTT, CAN, etc to collect and store data from over 20 sensors at low latency, handling faults appropriately.
- Tutor & Contributor | NPTEL March '23 - Present
  - Created YouTube tutorials under NPTEL for previous year GATE CS questions especially for the less privelleged applicants

### **CODING ACHIEVEMENTS**

- Codeforces Max Rating 1678 Expert
- ICPC: Mathura Prelims AIR 151
- AIR 3 in Shaastra CP Potpourri (Mixed-bag coding contest) [Shaastra is Asia's largest student-run Techfest]
- Google Farewell Round Global Rank 373
- Codeforces Round 881 Global Rank 231
- CodeChef Starters 96 (Div. 3) Global Rank 9
- 1st place in Inter-School Java Competition in Mumbai

#### **RELEVANT COURSES**

- Basic Electrical Engg
- Comp. Systems Design
- Prog. and Data Structures
- Computer Organisation and Architecture
- Design & Analysis of Algo
- Theory of Computation
- Probabilistic, Smoothed Analysis of Algorithms
- Object Oriented Prog.
- Discrete Maths

- Basic Graph Theory
- Probability, Statistics & Stochastic Processes
- Series and Matrices
- Multivariable Calculus
- Ordinary Differential Eqns
- Principles of **Economics**
- Intro to **Game Theory**
- Compiler Design \*
- Operating System \*
  - Ongoing