



MUVVA SRIJA



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Electrical Engineering (Power and Automation)	Indian Institute of Technology, Delhi	8.174
2020	Andhra Pradesh Board of Intermediate Education	Sri Chaitanya Junior College	98%
2018	Telangana Board of Secondary Education	Sri Chaitanya School	9.7

SCHOLASTIC ACHIEVEMENTS

- **Joint Entrance Exam(JEE):** Secured **All India Rank 1216** among 1.2 million candidates appeared for JEE Mains examination
- **INMO:** Qualified RMO **twice**('17,'18) and appeared for INMO (conducted by **HBCSE**), attended INMO workshop in class 11
- **Dr.A.S.Rao Olympiad:** Secured **State rank 17** in 29th STSE and received merit certificate from **Dr.AS RAO awards council** in class 9
- **TS EAMCET 2020:** Secured **State rank 94** among 2 lakh candidates appeared for exam organized by Telangana state
- **AP EAMCET 2020:** Secured **State rank 288** among 2 lakh candidates appeared for exam organized by Andhra Pradesh state

PROJECTS

- **Project on Cryptocurrencies** | Prof. Amitabha Bagchi and Prof. Venkata V Koppula [August, 2021 - November, 2021]
 - Used **OOPs** concept to build a working model of a cryptocurrency which processes transactions using **Blockchain technology**
 - Each transaction stores the information of buyer and seller, every new transaction is verified against the previous transactions before being added to **transaction block** (with a limit on the number of valid transactions) which is then added to the **Blockchain**
 - Used **merkle trees** to store transactions in transaction block and **authenticated linked list** as Blockchain to store transaction blocks
- **Finding near by Restaurants** | Prof. Venkata V Koppula [October, 2021]
 - Used **2-d trees** to store latitude and longitude points, helps in finding restaurants located within certain distance in **O(log n) time**
 - Stores the coordinates of restaurants in 2-d tree such that they split based on x-value at even depth and on y-value at odd depth
- **Print Calendar** | Prof. Huzur Saran [January, 2021]
 - Used multiple print methods in Python which takes year as input and outputs a text file with standard format of calendar
- **Project on Traffic Control System** | Prof. Manan Suri [October, 2021 - November, 2021]
 - Modified Original Traffic control system which takes population density into consideration and provides a simple, cost-effective and automatic solution to the issues that arise at the junctions where vehicles may turn in different directions
 - Designed a digital circuit by **inserting modified clock**(with MUX and T flip-flops) to give preference for specific signal
- **Riderless Bicycle Control** | Prof. Subashish Datta [February, 2022 - April, 2022]
 - Designed a control system to keep the bicycle in vertical upright position with the help of controllers or compensators
 - Obtained state space models, transfer functions and analyzed stability of the bicycle by **eigen values** and **Nyquist plots**
 - Designed controllers(PD, Linear feedback) for three different velocities to stabilize bicycle with the help of **sisotool** in MATLAB

TECHNICAL SKILLS

- **Computer Languages:** C++, Java, Python, SML, LaTeX, R, HTML, CSS
- **Softwares:** MATLAB, Autodesk Inventor

INTERNSHIPS

- **IITian Guide, An EduTech startup** | Worked as *Business Development and Educational Consultant*
 - Provided **one on one mentorship** for 10-15 JEE aspirants to maintain their academic consistency and mental well-being

POSITIONS OF RESPONSIBILITY

- **Activity Head, Tryst 2022 IIT Delhi** (July, 2021 - May, 2022)
 - Managed **logistics of 6-7 events** held for a period of three days in annual technical fest by leading a team of 5 people

EXTRA CURRICULAR ACTIVITIES

- **Executive, Dramatics Club** (July, 2021 - May, 2022)
 - Managed **Drama events and competitions**, provided necessary equipment required for their drama play in **Rendezvous 2022**
- **Volunteer, Wellness Club** (August, 2021 - July, 2022)
 - Hosted meditation session in Heartfulness workshop, created content for event publicity and took part in other activities of club
- **Head Volunteer, OCS IIT Delhi** (August, 2021 - December, 2021)
 - Conveyed availability of students to company HRs and addressed issues faced by students for smooth recruitment process
- **RuTAG Project** (July, 2022 - present): Working on **Smart Vending Cart** project for storage of produce, shelter for vendor, etc
- **Volunteer, No Help Too Big**(an NGO): Increased the outreach of NHTB by social media, raised funds for people in need
- Participated in groups of three in **glider making competition** which was organized by Rendezvous 2022 IIT Delhi
- **Sports:** Winner in **tennikoit** at school competition, participated in 100m run and long jump in **Sportech IIT Delhi 2022**
- **Dance:** Participated in district level cultural fest competition on behalf of school in class 7, performed in front of **500+** audience



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IIT COURSE

Degree

B.Tech in Electrical Engineering (Power and Automation)

Institute

Indian Institute of Technology, Delhi

CGPA

8.074

COURSES DONE

Engg. Visualization & Comm., Engineering Mechanics, Introduction To Chemistry, Linear Algebra & Diffe. Equa., Calculus, Intro. To Computer Science, Digital Electronics, Circuit Theory, Electromechanics, Signals And Systems, Digital Electronics Laboratory, Data Structures And Algorithms, Probability & Stochastic Pro., Control Engineering I, Power Electr. & Energy Devices, Principles Of Elect. Materials

POSITIONS OF RESPONSIBILITY

- Tryst Executives, CAIC (July, 2021 - May, 2022)

EXTRA CURRICULAR ACTIVITIES

- Dramatics Club, Executive (July, 2021 - May, 2022)