



# Srijia Muvva

Bachelor of Technology  
in Electrical Engineering(Power and Automation)  
Indian Institute of Technology, Delhi

+91-9014851420  
muvvasrija@gmail.com  
GitHub  
LinkedIn

## EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech EE	Indian Institute of Technology, Delhi	Delhi	8.343 (Till 6th Sem)	2020-2024
Intermediate Education	Sri Chaitanya Junior College	Andhra Pradesh Board	98%	2020
Secondary Education	Sri Chaitanya School	Telangana Board	9.7	2018

## ACHIEVEMENTS

- **INMO**: Qualified RMO twice('17,'18) and appeared for INMO (conducted by HBCSE), attended INMO workshop
- **Joint Entrance Exam(JEE)**: Secured All India Rank 1216 among 1.2 million candidates appeared for JEE Mains
- **Dr.A.S.Rao Olympiad**: Secured State rank 17 in 29th STSE and received merit certificate from Dr.AS RAO awards council
- **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
- **Winner from IIT Delhi**: in a Electric Vehicle challenge conducted by Chetak Technology limited and Bajaj Auto

## PROJECTS

- **Project on Cryptocurrencies** Aug 2021 - Nov 2021  
Prof. Amitabha Bagchi and Prof. Venkata V Koppula
  - Used OOPs concept to build a working model of a cryptocurrency which processes transactions using Blockchain technology
  - Each transaction stores information of buyer & seller, every new transaction is verified and then added to transaction block
  - Used merkle trees to store transactions in transaction block and authenticated linked list as Blockchain to store these blocks
- **Finding near by Restaurants** October 2021  
Prof. Venkata V Koppula
  - Used 2-d trees to store latitude and longitude points, helps in finding restaurants located within a distance in  $O(\log n)$  time
  - Stores 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
- **Academic BlockChain Document** Oct 2021 - Nov 2021  
Prof. Amitabha Bagchi
  - Developed a tamper proof & paperless certificate system for students by storing their academic record in a BlockChain
  - Stored individual data in merkle tree, used CRF for securely storing(which uses SHA-256 for generating unique strings)
- **Project on Traffic Control System** Oct 2021 - Nov 2021  
Prof. Manan Suri
  - Modified Original Traffic control system that considers population density and provides a automatic solution at the junctions
  - Designed a digital circuit by inserting modified clock(with MUX and T flip-flops) to give preference for specific signal
- **Riderless Bicycle Control** Feb 2022 - Apr 2022  
Prof. Subashish Datta
  - 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 help of sisotool in MATLAB
- **House price Prediction** Oct 2022 - Nov 2022  
Prof. Brajesh Lal
  - Developed a ML model using Neural Network concepts to predict whether the house price is above or below the median
  - Normalized training data, varied parameters such as network topologies, regularisation etc to optimize accuracy of model

## TECHNICAL SKILLS

- **Computer Languages**: C++, Python, Java, SML, LaTeX, R, HTML, CSS, JavaScript
- **Softwares & Libraries** : LTspice, MATLAB, AutoCAD, LaTeX, SCADA(basic), Git, NumPy, pandas, Keras, TensorFlow
- **Key courses taken**: Data Structures and Algorithms, Machine Intelligence and Learning, Probability Theory and Stochastic Processes, Linear Algebra, Calculus, Digital Electronics, Analog Electronic Circuits, Control Engineering, Signal and Systems, Electric Drives, Computer Architecture, Power Electronics, Embedded systems

## EXPERIENCE

- **Internship at Vedanta Limited**: 3x250MVA, 400/220/33kV ICT Commissioning, Automation of operations using SCADA
- **Mentor at IITian Guide, an EduTech Startup**: Worked as Business Development and Educational Consultant

## POSITIONS OF RESPONSIBILITY

- **Logistics Head**, Tryst'22 IIT Delhi, North India's largest Annual Technical Fest Jul 2021 - May 2022
- **Fest Coordinator**, AAVA AHN'22 a fest conducted by IIT Delhi collaboration with Think India Oct 2022 - Nov 2022
- **Executive**, VIBHINN'23, a Annual fest conducted by Indradhanu club IIT Delhi Jan 2023 - Feb 2023
- **Executive**, Dramatics Club - Managed Drama events and competitions in Rendezvous'22 IIT Delhi Jul 2021 - May 2022
- **Head Volunteer**, OCS IIT Delhi- addressed issues faced by students for smooth recruitment process Aug 2021 - Dec 2021