

# Tulsi Bhushan

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[Blog](#) [Website](#) [GitHub](#)

## EDUCATION

### Dwarkadas J. Sanghvi College of Engineering

*B.Tech in Electronics and Telecommunication Engineering with Honors in IoT*

2021-2025

Avg CGPA: 8.9

### D.G. RUPAREL COLLEGE

*XII- HSC*

2019-2021

94.6

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, Embedded C/C++, HTML, CSS, JavaScript

**Libraries and Tools:** SQL, React, Tailwind CSS, Next JS

**IoT Technologies:** Arduino IDE, Express PCB, KiCad, ThingSpeak, ESP

## WORK EXPERIENCE

### IoT and Coding Intern

*Jitulex, Mumbai*

*Jan 2024- Feb 2024*

- Designed and Implemented Home Automation using NodeMCU and MIT App Inventor. [Blog](#)
- Utilized embedded C/C++ for programming and integrated IoT technologies for seamless device control and communication. [Demonstration](#)

### Electronics Member

*DJS ARYA*

*June 2022- June 2023*

- I efficiently deployed a CanSat using embedded systems and presented the Critical Design Review as an Electronics Team Member in the USA CanSat competition. [Demonstration](#)
- Implemented two-way communication using XBee and coded the software state of the container in C++.

## PROJECTS

- Real-Time Crop Monitoring and Control System**, Developed a website for real time crop monitoring that includes features such as real time data viewing, remote actuator control, live video streaming, and data logging in CSV format. It supports two-way communication for data interpretation and analytics. The Website is build using HTML, CSS, JS and JSON. [GitHub](#)
- Satellite Software Development** Implemented satellite software states by interfacing hardware and creating an IoT system using C++. Developed software for successful CanSat ascent and descent, and facilitated communication with the ground station GUI. [GitHub](#)
- Prediction of Seasons using ML model and Data Acquisition** Real-time data acquisition is performed. A Random Forest model is used for data cleaning, followed by data processing. Seasons are predicted based on the model created.
- Building E-commerce Website using React** Implemented responsive E-commerce website using Reacts.
- Portfolio building** Crafted a visually stunning and responsive portfolio using Next.js and Tailwind CSS, showcasing my web development skills and projects.

## ACHIEVEMENTS

- Achieved First Runner Up in the UNPLUGGED Hackathon organized by IETE, secured 3rd place at Tech Expo, and received the Best Department award.
- Won second place for Smart and Automated Greenhouse Project in Prakalp 2.0
- Secured 1st Place in DJS Strike Competition.
- Shortlisted for IC-SIT Competition.

## EXTRACURRICULAR ACTIVITIES

- Debate competition**, Secured first runner-up.
- Quiz competition**, Secured first place
- Presented** the satellite design at International CanSat Comp sponsored by NASA.
- Hosted event** organized by DJS IETE while being a part of the events Dept.