# Gedela Sachit

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## EDUCATION

**National Institute of Technology Jamshedpur, India**　　　　　　　　　　　Dec 2020 - Jul 2024
Bachelors of Technology in Electrical Engineering　　　　　　　　　　　　**CGPA: 8.80/10.0**

**Sri Chaitanya Junior College, Gudavalli, Krishna District**　　　　　　　　　　　2018 - 2020
Class XII - MPC　　　　　　　　　　　　　　　　　　　　　　　　　**Percentage: 98.8**

**Sri Chaitanya High School, Punadipadu, Krishna District**　　　　　　　　　　　2016 - 2018
Class X　　　　　　　　　　　　　　　　　　　　　　　　　　　　**GPA: 10.0/10.0**

## PROJECTS

**CPU-SCHEDULING :** Source Code | Live Link　　　　　　　　　　JUNE 2023 - JULY 2023

- I designed and developed a web-based **CPU Scheduling Algorithm Visualizer** that allowed users to interactively simulate and analyze different scheduling algorithms. The visualizer supported four algorithms: **Round Robin**, **SJF**, **Priority Scheduling**, and **FCFS**. Users could input process details and observe the algorithms behavior in real-time, with a timer visualizing the progress. The project improved my web development skills, including **HTML**, **CSS**, and **JavaScript**.

**MUSIC PLAYER :** Source Code | Live Link　　　　　　　　　　JUNE 2023 - JULY 2023

- I developed a **Music Player web application** as a personal project using **JavaScript**, **CSS**, and **HTML**. The application allows users to listen to their self-made songs collection online. It features a clean and intuitive user interface with dynamic song information display, progress bar, and play/pause controls. The project demonstrates my proficiency in **front-end web development**, including working with audio elements and handling user interactions. .

**College Shopping Website :** Source Code　　　　　　　　　　　　Aug 2023 - Present

- I have successfully designed and developed a dynamic web application facilitating the **buying**, **exchanging**, and **selling** of **pre-owned items** exclusively within the **institute campus**. Leveraged **Node.js**, **Express.js**, and **MongoDB** for robust back-end functionality, while ensuring secure user **sign-up**/**login** and **authentication** through **passport.js**.Crafted an intuitive and engaging front-end using **HTML**, **CSS**, and **Bootstrap**, enhancing user experience and usability.

**Pricing-Based Distributed Control of Fast EV Charging Stations Operating Under Cold Weather**　May 2023 - Present

- Utilized **Gradient Ascent Algorithm** to optimize pricing for different charging speed classes within a **pricing-based control framework**, **maximizing utility** and **system efficiency**. Iteratively adjusted prices based on a cost function incorporating **charging power**, **service duration's**, **station capacity**,**utility function weights**, and **price thresholds**. Achieved **convergence** by **iteratively** updating prices until utility improvement became negligible. Resulted in **dynamic pricing strategy** for improved resource allocation and enhanced profitability.

## TECHNICAL SKILLS

**Programming:** C++ ⬈ , C, Python, Data Structures And Algorithms, C++ OOPs ⬈
**Technical Infrastructure:** Operating Systems, Network, Database Management Systems
**Web Development:** HTML, CSS, JavaScript, Bootstrap, React, Jquery, Node.js, Express.js, REST API, EJS
**Databases:** MongoDB, MySQL
**Miscellaneous:** Git/GitHub, Vs code, Ms office(word,excel,PowerPoint)

## ACHIEVEMENTS

- I participated in different coding events and secured a lowest **All India rank of 42** ⬈ .
- Solved **1000+** DSA problems on **Coding Ninjas**. Contest Rating : **2010**. Currently in **LEVEL 7** With EXP score : **40000+**. ⬈
- Solved **100+** DSA problems on **GeeksForGeeks**. Coding score : **300+**. ⬈
- Solved **100+** DSA problems on **LeetCode**. Contest Rating : **1719**. ⬈