



# Tejas Kadre

Roll No.:210102104

B.Tech - Electronics and Communication Engineering

Minor in Computer Science and Engineering

Indian Institute Of Technology, Guwahati

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Github

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## EDUCATION

| Degree/Certificate | Institute/Board                          | CGPA/Percentage | Year         |
|--------------------|--|-----------------|--------------|
| B.Tech. Major      | Indian Institute of Technology, Guwahati | 8.33 (Current)  | 2021-Present |
| Senior Secondary   | CBSE Board                               | 93.2%           | 2021         |
| Secondary          | Cambridge IGCSE Board                    | 6A* 1A 2B       | 2019         |

## PROJECTS

- TalkZone - Video Conferencing App** June 2023  
*Coding Club, IITG* Github
  - Developed a web app for real time video conferencing using **Node.js**, **Express.js**. Frontend using **EJS** and **CSS**.
  - Communication using **WebRTC**, **Socket.IO**, and **PeerJS** allowing multiple users to join or create a room, chat with each other in the ChatBox as well as view all participants and invite more.
  - User login using **PassportJS** and **Google OAuth 2.0**. Participants can switch on or off their video/audio streams, along with the ability to share screen, use a collaborative whiteboard, and schedule a meeting at a designated date and time using **Nodemailer** by automatically sending emails to attendees 15 minutes prior to the meeting time.
- Conway's Game of Life** May 2023  
*Personal Project* Github | Website
  - Used **ReactJS** to develop an interactive version of the cellular automaton devised by John Horton Conway in 1970. HTML, CSS, and JavaScript were also used for frontend. Deployed using **Netlify**.
  - Users can start the simulation either by creating a **custom** initial configuration or by generating a **random** one. Controls to start/stop the simulation, adjust the update interval time, and reset the grid by clearing all cell states are available to observe its evolution.
- BlogSpot - Blog Writing and Sharing Platform** March 2023  
*Personal Project* Github
  - Developed a blogs website using **Node.js** and **Express.js** for viewing and sharing blogs written by users of the platform. Frontend is implemented using EJS, CSS, and **JavaScript**.
  - Used **MongoDB** database with the **Mongoose ODM** library to interact with the database and store the blogs of all users. Features to create and upload blogs, view all as well as individual blogs, and delete certain blogs are implemented.

## TECHNICAL SKILLS

- Programming:** C, C++, JavaScript, Python\*
- Database Management:** MongoDB\*, Mongoose
- Operating Systems:** Windows, Linux\*
- Web Development Technologies:** HTML, CSS, Node.js, Express.js, React.js\*
- Miscellaneous:** Git, Verilog\* \* Elementary proficiency

## KEY COURSES TAKEN

- Computer Science:** Data Structures & Algorithms, Theoretical Foundations of Computer Science, Introduction to Computing, Computing Laboratory
- Mathematics:** Probability & Random Processes
- Electrical and Electronics:** Control Systems, Signals and Systems, Analog Circuits

## ACHIEVEMENTS

- JEE Mains**, Secured an All India Rank of **3012** among 1 million candidates 2021
- JEE Advanced**, Secured an All India Rank of **2042** among top 0.16 million shortlisted candidates 2021
- CS101 & CS110 Courses**, Secured **AA** grade in Introduction to Computing and Computing Laboratory 2022

## POSITIONS OF RESPONSIBILITY & EXTRACURRICULARS

- Currently serving as **Content Head** in Cepstrum, IIT Guwahati June 2023 - Present
- Served as **Content Team Member** in Cepstrum, IIT Guwahati July 2022 - June 2023
- Organized events, **Insight Lecture**, **Minor Talk**, and **Freshers Party** for freshers of electrical department
- Served as a **Public Relations & Branding Executive** for Alcheringa, IIT Guwahati June 2022 - May 2023
- Mentored four freshmen students, **Student Mentorship Programme** Nov 2022 - May 2023
- Xpressions Club Member**, Acted in streetplay 'Mahine ke vo din' and **Directed** skit 'Aakhiri Patta' in Skit-zo-Mania