



Rishabh Rajak

Roll No.:220102080

B.Tech - Electronics and Communication Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	5.15 (Current)	2022-Present
Senior Secondary	CBSE Board	73%	2022
Secondary	CBSE Board	75.4%	2020

PROJECTS

- **FinFlow** Oct. 2023 - May. 2024
Electronics Club(Group Project) Github/Web
 - Developed an IoT-enabled smart pond monitoring system that automatically tracks multiple water quality parameters and alerts farmers when values exceed safe thresholds.
 - Measures the dissolved oxygen and pH levels in sample water using an analog oxygen sensor and pH sensor, also detects the Ammonium Ion concentration by performing Berthelot Reaction.
 - Worked on the operation of O2 sensor, pH sensor, Spectrophotometric sensor and 1.5 inch OLED display using the Arduino IDE.
- **Real Time Chat** Mar.2025
Personal Project Github/Web
 - Developed a real-time chat application using Node.js, Express.js, Socket.IO, and MongoDB.
 - Implemented Real-time messaging with Socket.IO, user authentication (login, signup, profile), chat rooms and personalized user profiles.
 - Used MongoDB and HTML/CSS for message, user data persistence and Responsive UI built with HTML/CSS and vanilla JS
- **Personal Portfolio** Mar.2024
Personal Project Github/Web
 - Developed a **personal portfolio website** featuring responsive design, animated sections, and intuitive navigation using HTML, CSS, and JavaScript.
 - Integrated **interactive UI components**, including tabbed grade/matriculation viewers and modal PDF embedders.
- **Responsive Landing Page** Mar. 2025
Personal Project Github/Web
 - Developed a responsive landing page using HTML, CSS, and JavaScript with animated hero sections, mobile navigation, and smooth transitions.
 - Implemented interactive UI features such as a fixed navbar, hamburger menu, and GSAP-powered animations for enhanced user experience.

TECHNICAL SKILLS

- **Programming:** Python, C
- **Web/App Technologies:** HTML, CSS, JavaScript
- **Database Management:** MySQL
- **Miscellaneous:** ArduinoIDE, LabView, Autodesk
- **Operating Systems:** Windows, Linux

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Basic Calculus, Probability & Random Processes
- **Electronics And Communication:** Digital Circuits, Signals and Systems, Control Systems, Blockchain Science and Technology
- **Computer Science:** Data structure and algorithms

POSITIONS OF RESPONSIBILITY

- **Core Team:** Electronics Club, IIT Guwahati Apr.2024 - Apr.2025

ACHIEVEMENTS

- **JEE Advanced 2022:** Secured a CRL rank of 13341 and Category rank 405

EXTRA CURRICULAR ACTIVITIES

- **Spardha:** Participated in sports like Cricket, Carrom and Hockey
- **Techevince 10.0:** Exhibited FinFlow, a Smart water monitoring project, at the Annual Technical Exhibition hosted by Technical Board of IIT Guwahati.