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	6.25 (Current)	2022-Present
Senior Secondary	CBSE Board	92%	2022
Secondary	CBSE Board	89.4%	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*
  Grou 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

- **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.

- **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.

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.