

# PREMANSHU RAY

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## EDUCATION

- St. Thomas' College of Engineering & Technology 122** 2021 - 2025  
B. Tech in Electronics & Communication Engineering | 7.73
- Saora Union High School** 2019- 2021  
Higher Secondary Education (Science Stream) | 76.6%
- Kumursha Sital Ch. De Vidyamandir** 2008 – 2019  
Secondary Education | 78.57%

## EXPERIENCE

**Industrial Trainee – Prasar Bharati (Akashvani)** Jan 2024 – Feb 2024 (2 months)

- Participated in hands-on technical training focused on AM, FM and satellite broadcasting infrastructure.
- Operated, calibrated, and maintained studio transmission systems to ensure seamless nationwide signal delivery.

## PROJECTS

**HealthiFy – AI-Based IoT Health Monitoring System** [Live Demo](#) | [GitHub](#)

Tech Stack: Arduino UNO, Raspberry Pi, MAX30102, AD8232, React (TSX), Tailwind CSS, Spring Boot, H2 DB, SQL, Python, Gemini AI, Linux cli, GitHub

- Architected a full-stack IoT platform for real-time ECG, SpO<sub>2</sub>, and heart rate monitoring using biomedical sensors. Integrated AI models for abnormality detection.
- Developed a real-time WhatsApp alert system with GPS tracking for emergencies.
- Integrated doctor search with filters and booking/call options into the website to streamline user access to care.

**FindGit – GitHub Profile Search Web App** [Live Demo](#) | [GitHub](#)

Tech Stack: HTML, CSS, JavaScript, GitHub API

- Constructed a lightweight, responsive web tool to retrieve and display GitHub profile information using REST API.
- Enhanced UX through real-time data rendering and dynamic UI components.

**Quiz Application – Web-Based Assessment Tool** [Live Demo](#) | [GitHub](#)

Tech Stack: HTML, CSS, JavaScript

- Designed and built an interactive quiz platform featuring multiple-choice questions and real-time scoring.
- Implemented logic for dynamic question loading, user answer validation, and score tracking.
- Enhanced user experience with a responsive layout and feedback system upon completion.

## TECHNICAL SKILLS

- Programming Languages:** C++, JavaScript
- Web Technologies:** HTML, CSS, Tailwind CSS, React.js (Currently Learning)
- Databases:** SQL
- Core CS Concepts:** Computer Networks, Object-Oriented Programming (OOP)
- Developer Tools:** Git, GitHub, VS Code