

# DIPANWITA BALA

[dipanwita.bala.02@gmail.com](mailto:dipanwita.bala.02@gmail.com) [LinkedIn](#) [GitHub](#) [Leetcode](#)

## Education

### B.Tech in Electronics and Communication Engineering with Artificial Intelligence

August, 2021 - May, 2025

Indira Gandhi Delhi Technical University for Women

Delhi

- CGPA : 7.08
- **Relevant Coursework** : Data Structures and Algorithms, Object Oriented Programming, Database Management System, Operating System

## Projects

### Mindly - Second Brain Website | [github](#) | [live](#)

June 2025 - July 2025

React, TypeScript, Express.js, MongoDB, JWT, Zod, Mongoose, Axios, TailwindCSS, Axios, React Query, Render, Vercel

- Developed a full-stack productivity web application that allows users to store and organize important content links (images, videos, articles, audio) in a centralized knowledge base.
- Implemented both frontend and backend using TypeScript for enhanced type safety and maintainability. Designed robust Mongoose schemas and enforced strict validation using Zod for request payloads.
- Implemented secure user authentication using JWT.
- Used React Query for server side state management, data fetching and caching.
- Created a Chrome Extension that lets users save content directly from the browser in just a few clicks.
- Deployed the server application on Render and frontend on Vercel for easy and reliable hosting.

### Chat Room - Real Time Chat App | [github](#) | [live](#)

July 2025

TypeScript, Node.js, WebSocket, Vite, React.js, TailwindCSS, Render, Vercel

- Built a full-stack real-time chat application using WebSocket protocol, enabling instant communication across multiple rooms.
- Developed the backend server using Node.js and the ws library to manage room-based connections, message broadcasting, and user sessions.
- Designed a responsive SPA frontend using React.js, Vite, and TailwindCSS with features like create/join chat room and live chat updates.
- Ensured modular architecture with separation of client and server directories for maintainability and scalability.
- Deployed the server on Render and frontend on Vercel for seamless real-time interaction and global access.

## Technical Skills

**Languages & Web:** Java (Core, OOPs, Collections), JavaScript (ES6+), TypeScript, HTML5, CSS3, HTTP, WebSocket

**Frameworks & Libraries:** React.js, Node.js, Express.js, Recoil, Axios, Mongoose, TailwindCSS, WS

**Databases:** MongoDB, MySQL

**Tools & Platforms:** Git, GitHub, VS Code, Postman, Zod, JWT, REST APIs

**Cloud & Deployment:** AWS EC2, DigitalOcean Droplets, Vercel, Render

## Roles and Responsibilities

**Web Developer**, E-Cell (2022–2023): Contributed to the design and development of the society website.

**Head Coordinator**, ECE Team – Innervetech Fest (2022): Led event planning and execution, ensuring high participation and smooth operations.

## Achievements

- Solved 600+ problems on LeetCode with a 1426 contest rank.
- Research paper on “Audio Deepfake Detection using MFCC & CNN-BiLSTM” accepted at ICAISI 2025 (30–31May).