

DIPANWITA BALA

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

- ▶ Built a full-stack productivity app to store and organize links (articles, images, videos, audio) with TypeScript, Express.js, and MongoDB.
- ▶ Implemented secure JWT authentication, Mongoose schemas with strict Zod validation, and React Query for caching & server-state management.
- ▶ Created a Chrome Extension for one-click content saving; deployed backend on Render and frontend on Vercel.

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

July 2025

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

- ▶ Developed a real-time multi-room chat app using WebSocket protocol with Node.js and ws library.
- ▶ Designed a responsive SPA frontend in React + Vite with room creation/joining and live chat updates.
- ▶ Ensured modular architecture with separate client/server deployments on Render and Vercel.

Airtable Form Builder | [github](#) | [live](#)

August 2025

React.js, TypeScript, Node.js, Express.js, MongoDB, Airtable API, TailwindCSS, Axios, Render, Vercel

- ▶ Built a form builder that authorizes with the user's Airtable account to create and manage bases, tables, and forms directly from the app.
- ▶ Enabled users to generate and share forms with a public link; responses are stored and synced in real-time to their Airtable dashboard.
- ▶ Implemented editable form fields, modular MERN + TypeScript architecture, and a responsive UI using TailwindCSS.

Technical Skills

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

Frameworks & Libraries: React.js, Node.js, Express.js, Recoil, React Query, React Hook Form, Storybook, 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).