

# Avni Saini

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## Education

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**B.Tech in Computer Science and Engineering**  
Bennett University, Greater Noida, India

2024 – 2028

## Technical Skills

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**Programming Languages:** Python, Java, C++, TypeScript, JavaScript, SQL, Rust, Dart

**Web Technologies:** HTML, CSS, React, Next.js, Svelte, SvelteKit

**Backend & APIs:** Node.js, RESTful APIs, Flask

**Databases:** PostgreSQL, MySQL, MongoDB, Google Firebase

**Libraries & AI:** Pandas, NumPy, spaCy, scikit-learn, TF-IDF, Google Gemini

**Blockchain:** Solidity, Hardhat, OpenZeppelin, Ethers.js

**Developer Tools:** Git, GitHub, Docker, Vite, npm, LaTeX, Sphinx, Graphviz

**Design Tools:** Canva, Figma, Tailwind CSS, Framer Motion

**Coursework:** Data Structures, Design and Analysis of Algorithms

**Soft Skills:** Problem-Solving, Leadership, Project Management, Communication

## Projects

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**Rail Ledger** — Smart India Hackathon (SIH 2025)

*Svelte, SvelteKit, Node.js, SQL, Drizzle ORM, Docker*

- Built a centralized tracking system for railway components to monitor lifecycle, condition, and expiry, reducing accident risks caused by damaged or expired parts.
- Implemented role-based access for users, admins, and vendors to securely view, update, and manage component data.
- Developed the frontend using Svelte and SvelteKit with a strong focus on usability and clarity.
- Shortlisted among the **Top 20 teams** at the university level in Smart India Hackathon 2025 (Indian Railways).

**EcoCred – Blockchain-Based Carbon Credit Management Platform**

*Solidity, Hardhat, React, Node.js, PostgreSQL, Web3*

- Designed and deployed Ethereum smart contracts to manage carbon credits in a decentralized and transparent manner.
- Implemented ERC-20 and ERC-721 token standards with staking, DAO governance, and marketplace functionality.
- Built a full-stack Web3 application with secure authentication, role-based access, and on-chain verification.
- Deployed using Vercel with Infura/Alchemy RPC providers for blockchain interaction.

**Smart Chef** — AI-Based Recipe Recommendation System

*React, TypeScript, Flask, PostgreSQL, NLP, Generative AI*

- Developed an AI-driven platform that recommends recipes based on available ingredients and estimates cooking time.
- Applied NLP techniques such as TF-IDF, cosine similarity, and spaCy, along with Google Gemini for enhanced recommendations.

- Built RESTful APIs using Python and Flask and deployed the system using Vercel and Render.

**Calm Zone** — AI-Assisted Mental Wellness Platform

*Next.js, React, PostgreSQL, Drizzle ORM, Google Gemini*

- Created a mental wellness platform providing personalized tasks such as breathing exercises and guided thought sharing.
- Implemented mood tracking and dynamic task generation based on user input.
- Focused on calm, minimal UI/UX using Tailwind CSS and Framer Motion.

**Coal Vision** — Frontend Visualization Platform

*React, TypeScript, Tailwind CSS, PostgreSQL*

- Built a responsive and visually engaging frontend platform to visualize and manage structured data.
- Emphasized clean UI, animations, and performance optimization.

## **Experience & Positions of Responsibility**

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<b>General Secretary</b>	Present
Palétto – Design Club, Bennett University	
• Leading the university's official design club and coordinating creative initiatives.	
<b>Deputy Minister of Design</b>	Present
Student Cabinet (SCSET), Bennett University	
• Headed design operations for Project Showcase and SIH 2025 while managing large-scale events.	
• Represented the university in an official panel discussion held at Taj Palace.	
<b>Placement Cell Volunteer (PLACOM)</b>	Present
Bennett University	
<b>Design Team Member</b>	Past
Mobilon, Spark E-Cell, and BURS – Bennett University	

## **Achievements**

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- Top 20 finalist at university level in Smart India Hackathon (SIH 2025).
- Secured 3rd position in Clubs & Chapters track during Project Showcase.
- Organized and contributed to flagship university events including ResCon, Bennovate, and MobileNext.