

Avni Saini

6397798346 — Avnisixc13@gmail.com
linkedin.com/in/avni-saini-0927a12b9 — github.com/avni-saini

Education

B.Tech in Computer Science and Engineering

2024 – 2028

Bennett University, Greater Noida, India

Technical Skills

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

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

General Secretary Present

Palétto – Design Club, Bennett University

- Leading the university’s official design club and coordinating creative initiatives.

Deputy Minister of Design 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.

Placement Cell Volunteer (PLACOM) Present

Bennett University

Design Team Member Past

Mobilon, Spark E-Cell, and BURS – Bennett University

Achievements

- 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.