

Abhay Singh

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Education

Army Institute of Technology

B.E. in Information Technology, CGPA: 8.75

Pune, Maharashtra

July 2024 – Present

St. Mary's Inter College

Senior Secondary: Scored 90.6% (CBSE)

Matriculation: Scored 83% (CBSE)

Lucknow, Uttar Pradesh

2022 – 2023

2020 – 2021

Position Of Responsibility

NextEra Co-Founder- AI & SaaS Products

Dec 2025 – Present

- Transforming ideas into [NextEra](#) generation.

Joint Secretary, Open-Source Software Club

Sep 2024 – Present

- Served as an organizing member of Inerve 9 Hackathon, which hosted over 5000+ participants.
- Managed logistics coordination, including participant queries, and sponsor outreach Actively.
- Participated in weekly club meetings and contributed to functioning of club.

Joint Secretary, Debate, Dramatics and Quiz Club

Sep 2024 – Present

- Helped organize the Model United Nations (MUN) - III Edition with over 200 participants from various institutions.
- Coordinated with executive committee for scheduling, delegate outreach, and logistics planning.
- Engaged in regular club meets, dramatics workshops to build communication and improvisation skills.

Projects

TripNow- Ride Booking Web App (React, Node.js, Express.js, MongoDB, Socket.io, Google Maps API, Razor pay)

[TripNow/ DemoVideo](#)

- Developed a full-stack ride-booking application inspired by real platforms.
- Real-time ride tracking** using Socket.io.
- Integrated **Google Maps API** for live location services and route visualization.
- Implemented **secure payments** via Razor pay & **JWT-based authentication** for users and captains.
- Built **OTP verification system and live GPS ride tracking to enhance user trust.**
- Designed a responsive mobile first UI with React, Vite, Tailwind CSS and Framer motions animations.

Todo- Productivity and Task Management app (React, Vite, Tailwind CSS, Google Gemini API)

[TaskManagement](#)

- Developed a **task management system** allowing users to create, edit, delete, and track tasks across multiple lists with persistent storage via local Storage.
- Integrated an interactive calendar (React Big Calendar) to add, view, and manage events with dark mode support.
- Enabled multimedia embedding (YouTube videos & websites) with URL parsing and seamless routing using React Router.
- Added **AI-powered chatbot** using Google Gemini API to assist users with **queries, recommendations** and **automate to add tasks** via chatbot.
- Built a **responsive, mobile-first UI** with Tailwind CSS, including **dark/light mode toggle** and a collapsible sidebar.
- Managed application state with **React Context API**, ensuring scalability and maintainability.

Restaurant AI agent (HTML, CSS, Python, FastAPI, LangChain, LangGraph, Google Sheet API, OpenAI API)

[RestaurantAgent](#)

- Developed an AI-powered restaurant assistant chatbot using **LangChain** and **LangGraph** for intelligent conversation flow and decision-making.
- Integrated** OpenAI's **GPT-4.1-mini model** with custom tool binding to handle menu inquiries, order placement, stock management, and FAQ searches.
- Implemented **Google Sheets** API as a real-time **database** for management.
- Build end-to-end chat system using **FastAPI** and **JavaScript**, enabling real time message streaming, responsive UI, and persistence chat history..
- Implemented **multi-turn conversational** workflows using LangGraph StateGraph for context management, tool execution, and reliable agent behaviour.

Other Projects- (HTML, CSS, JavaScript, Tailwind CSS)

- Build Multiple frontend UIs like Twitter ([Link](#)), Instagram ([Link](#)), Salesforce to strengthen the **component-based development**.
- Developed interactive mini games (Tic-Tac-Toe, Pokémon battles, Colour matching) to implement **DOM manipulation** and **JavaScript event handling**.
- Created small utility web apps like Weather App, Currency Converter (basic version) to enhance **API integration** and **state management skills**.
- Designed a personal browser extension to track my running streaks, and college community web app for student **doubt, assignments, project collaborations, lost & found, book exchange.** ([Link](#))

Technical Skills

- Programming & Problem Solving:** C++, Python
- Frontend Development:** HTML, CSS, Tailwind CSS, Bootstrap, JavaScript, React.js
- Backend Development:** Node.js, Express.js, REST APIs, FastAPI, Socket.io
- Database:** MongoDB, Supabase
- Developer Tools & Platforms:** Git, GitHub, Postman, Docker, VS Code, Linux(Ubuntu)
- AI & LLM Development:** Prompt Engineering, LLM API Integration, RAG, Vector Databases, AI agent(LangChain, LangGraph) ([Certificate](#))
- Design & Collaboration:** Canva, Figma
- Soft Skills:** Event Management, Speaking, Graphic Design, Teamwork
- Other Skills:** AI Tools, Google Search

Key Highlights

- Joint Secretary, **CIDC** — **contributed** to (AIT) **official college website** maintenance by identifying issues, optimizing layouts, and improving usability.
- Finalist** in three major hackathons, including **Global Digital Health Summit, NASA Space App Challenge, and Mumbai Hacks.**
- Built an **AI-driven travel assistant** using Sonnet 3.5 with real-time voice interaction chatbot, carbon-footprint analytics, and personalized sustainable-travel recommendations using **NextJS.** ([EcoTravel](#))
- Led frontend** development for **Sniffi** using **React**, delivering a fast, responsive, and production-ready UI that significantly improved user experience and performance. ([Sniffi](#))
- Solved **250+** coding problems across platforms, including 5 ⭐ in C++ on HackerRank, with consistent practice on Codeforces and GeeksforGeeks.
- Revamped the **official college website UI** in Designathon'24, improving structure, navigation clarity, and overall user experience.
- Developed a functional web solution in an **inter-college hackathon** (GRAPHICA'24), using modern frontend technologies to address real-world problem statements.