Aditya Agarwal

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Education

Manipal Institute of Technology (MIT), Manipal, India *Sept 2022 – May 2026*
Bachelor of Technology in Computer Science and Engineering (B.Tech)
Relevant Coursework:
Data Structures and Algorithms, Computer Networks, Database Systems, Operating Systems, Software Engineering, AI/ML Fundamentals

Delhi Public School, Kalyanpur Kanpur *2022*
Senior Secondary (CBSE) 89%

Skills

Programming: C, Java ▪ **Frontend:** React.js, HTML, CSS, JavaScript, GSAP, Bootstrap, Framer Motion ▪ **Backend:** Node.js, Express.js, Django ▪ **Databases:** MongoDB, SQL

Experience

Full Stack Developer Intern, MIT Manipal *June 2024 – July 2024*

- Developed responsive web applications replicating Netflix and Spotify, enhancing UI responsiveness and user interaction.
- Designed scalable RESTful backends using Node.js, Express.js, and MongoDB, optimizing response times by 10% in internal benchmarks.
- **Technologies:** React.js, Node.js, Express.js, MongoDB

Projects

BUGEASE (Campus Buggy Tracker) GitHub

- Built a real-time campus buggy tracking system with live geolocation updates using React, Google Maps API, and Django REST Framework.
- Developed AI-powered chatbot support (Google Gemini) for instant route queries, alongside interactive data visualizations and a modern, responsive UI.
- Leveraged WebSockets for seamless real-time location updates and integrated form validation and state management with React Hook Form, Zod, and React Query.
- **Technologies:** React, Tailwind CSS, Django REST Framework, Google Maps API, WebSockets, Gemini AI

JOBSYNC (AI-Powered Job Finder) Live

- Developed an AI-driven job finder matching user resumes with tailored job opportunities using custom recommendation logic.
- Implemented career mentorship features and interactive insights dashboards to provide better decision-making for job seekers.
- Integrated real-time notifications and personalized alerts for job updates based on user preferences.
- **Technologies:** Node.js, Express.js, MongoDB, HTML, CSS, JavaScript, GSAP, Lenis

Balanced Pitch (AI Transparency Advocacy Platform) Live

- Designed and developed an advocacy platform focusing on artist rights and AI transparency, using React and Vite for performant, modular UI development.
- Implemented dynamic page transitions, parallax scrolling, and smooth animations with GSAP, Framer Motion, and Lenis to elevate user experience.
- Integrated SEO optimization, responsive layouts, and audio modules, ensuring fast, accessible, and visually engaging performance across devices.
- **Technologies:** React, Vite, GSAP, Framer Motion, Lenis, Helmet

Research & Publications

- **AI-Driven Early Detection of Diabetes using Machine Learning** (Ongoing)
  Developed predictive ML models for early diabetes diagnosis, emphasizing feature importance and model accuracy.
  Technologies: Python, scikit-learn, Pandas, NumPy
- **Federated Learning on Item Sets for Privacy-Preserving Recommendations** (Ongoing)
  Researched federated learning on distributed item set data to enhance recommendation systems while preserving user privacy.
  Technologies: Python, TensorFlow, PySyft

Awards & Achievements

- Secured **4th** position in **Devsprint'25 Hackathon** among 30+ teams, organized by ISTE Club, MIT Manipal *2025*
- Open Source Contributor at **GirlScript Summer of Code (GSSoC)** *2024*
- Winner of the **GeeksforGeeks 21-Day Problem of the Day (POTD) Challenge** *2024*
- Ranked **64th** out of 100,000+ in the college entrance exam *2022*