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

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

TECHNICAL SKILLS

Languages: C, Java
Frontend: HTML, CSS, JavaScript, React.js, Bootstrap, GSAP
Backend: Node.js, Express.js, Django
Databases: MySQL, MongoDB
Tools: Git, GitHub, Linux
Coursework: Data Structures & Algorithms, Computer Networks, DBMS, Operating Systems, Software Engineering, Artificial Intelligence & Machine Learning

EXPERIENCE

Software Engineer Intern | Snapmint, Mumbai   May 2025 – July 2025
- Assisted in implementing a **customer loyalty program** with **large-scale merchants**, enhancing **user retention and engagement**.
- Supported the **Data Engineering** team in optimizing the backend codebase using **Node.js** and **Express.js**, improving **performance and user experience**.
- Contributed to the integration of an **AI-powered chatbot** tool for automating support for customers and merchants, improving **response efficiency**.

FullStack Developer Intern | MIT Manipal   June 2024 – July 2024
- Created **Null Studio**, a responsive agency site with **95% mobile compatibility**
- Scored perfect Lighthouse on Null Studio: **100 Accessibility, 100 SEO, 100 Best Practices**
- Built **Flixx**, a Netflix clone with **multilingual support (15+ languages)**
- Achieved **Lighthouse: 93 Performance, 94 Accessibility, 91 SEO, 100 Best Practices**
- Reduced **LCP by 70%** via lazy loading/image optimization; reached **2.5s mobile load**
- **Live:** nullstudio.netlify.app, flixxs.netlify.app

PROJECTS

BUGEASE – Campus Buggy Tracker   GitHub
- Real-time **campus transport tracker** for **15+ users** with live GPS
- Integrated **chatbot via Gemini API**; reduced query time by **60%**
- Built dashboards improving decision-making by **35%**
- **TechStack:** React.js, Django REST, Google Maps API, WebSockets, Gemini AI

JOBSYNC – AI-Powered Job Finder   Live
- Designed a platform helping **daily-wage workers** discover job opportunities.
- **Lighthouse: 93–96 Performance, 100 SEO**; **GTmetrix A (96/96)**; **LCP: 406ms**, CLS: 0.12, TBT: 0ms
- Resolved **250+ WAVE errors** for WCAG-compliant accessibility
- **TechStack:** HTML, CSS, JavaScript, GSAP, Node.js, Express.js, MongoDB

Balanced Pitch – AI Transparency Platform   Live
- Built advocacy platform promoting **transparency in AI-generated music** with modern React architecture
- Achieved **100/100 Accessibility, Best Practices, SEO**; **GTmetrix: 91%**, **LCP 1.0s**, **TBT 185ms**
- Optimized for **<2.5s global load time** with mobile-first responsive design and zero accessibility errors
- **Tech Stack:** React 18, Vite, GSAP, Framer Motion, React Router, Lenis, Netlify

RESEARCH & PUBLICATIONS

Itemset Mining Using Federated Learning | Ongoing   Synopsis
- Leading research on **privacy-preserving itemset mining** in federated learning
- Developing **decentralized algorithms** balancing utility and privacy
- **Guide:** Dr. Anup Bhat B, Assistant Professor, Dept. of CSE, MIT Manipal

AWARDS & ACHIEVEMENTS

- **Delegate, HPAIR** – Selected for Harvard's Conference at University of Tokyo, Japan   **2025**
- **4th Place** – Devsprint'25 Hackathon (30+ teams), ISTE MIT Manipal   **2025**
- **Project Admin & Contributor** – GirlScript Summer of Code   **2024**
- **Winner** – 21-Day GFG x Deutsche Bank POTD Challenge   **2024**
- **AIR 64** – MET National College Entrance Exam   **2022**