

Ansh Agrawal

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Objective

Aspiring software engineer passionate about AI and full-stack development, seeking impactful opportunities to build intelligent systems.

Education

Manipal University Jaipur, B.Tech in Computer Science August 2023 – June 2027

- CGPA: 8.00/10.0 (2nd year)
- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, DBMS, OS, Computer Architecture, Automata Theory

DAV Public School Sec-49, Gurugram CBSE

- 12th Grade: 85.2% (2023), 10th Grade: 95.1% (2021)

Projects

Study Buddy – Voice-Based Agentic Learning Assistant [GitHub Link](#)

- Developed for the Assesli Hackathon and awarded **3rd place**; implemented a 4-phase agentic learning system (Analyze, Teach, Assess, Recommend) designed for scalable adoption in EdTech SLM development.
- **Tools Used:** Next.js, Gemini AI, Gemini TTS, Web Speech API, Supabase, LangGraph, Ngrok

Aarogya AI – RAG-Based Multilingual + Voice LLM Chatbot [GitHub Link](#)

- Built a healthcare-focused, multilingual, voice-enabled chatbot leveraging LLaMA LLM and FAISS for contextual retrieval, enabling natural conversations for medical queries.
- **Tools Used:** Python, LLaMA, FAISS, Fasttext, FastAPI, LangChain, React, VOSK

DATAI – Natural Language Database Query Interface [GitHub Link](#)

- Developed an AI-powered platform that converts natural language queries into SQL commands, enabling intuitive database interactions for non-technical users.
- **Tools Used:** Next.js, Gemini API, Supabase, LangGraph, Recharts

AI Portfolio – Interactive Developer Portfolio [GitHub Link](#)

- Built an AI-powered, conversational portfolio using Google Gemini to provide personalized, real-time responses about skills, projects, and experience.
- **Tools Used:** Next.js, TypeScript, Tailwind CSS, Framer Motion, Google Gemini API

Exam Guard – AI-Powered Cheating Detection System [GitHub Link](#)

- Won **1st place** at the MUJ Hackathon; built a real-time cheating detection system featuring gaze tracking, gesture recognition, and multi-camera monitoring for academic integrity.
- **Tools Used:** YOLOv5, OpenCV, MediaPipe, TensorFlow

Technologies

Languages: C, C++, Java, Python, Kotlin, Dart, SQL, HTML, CSS, JavaScript

Technologies: VS Code, Flutter, Android Studio, Firebase, MySQL, PostgreSQL, MongoDB, FastAPI, Flask, TensorFlow, OpenCV, Faiss, LangChain, Google Colab, Node.js, Express.js, Arduino IDE, Supabase, Ngrok, Web Speech API, Gemini, VAD, Linux

Awards and Achievements

- **1st Position – The Hackathon:** Issued by Manipal University Jaipur · Apr 2025
- **4th Position – CODESTORM Hackathon:** Issued by BITS Goa · Feb 2025
- **4th Position – ML Hackathon:** Issued by IIT Kanpur TechKriti'25 · Mar 2025
- **Top 5 – Beat the Market Challenge:** Issued by IIT Kanpur TechKriti'25 · Mar 2025
- **Top 10 – Product Challenge:** Issued by IIT Kanpur TechKriti'25 · Mar 2025
- **Winner - Global Sustainability Awards:** Issued by ARCedtech Solutions Pvt. Ltd. · Nov 2022