

Ashu Newatia

Roll No.: 250001011
B.Tech
Computer Science and Engineering
Indian Institute of Technology Indore

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology Indore	9.04	2025–Present
12th	CBSE Board	94.4%	2025
10th	CBSE Board	97.2%	2023

Experience

- **Career Advancement and Mentoring Centre** *Jan 2026–Present*
  Frontend Developer IIT Indore
  –Maintaining and enhancing the official CAMC portal's frontend and user-facing components.

Projects

- **Mission Impossible Spy Terminal: AI Voice Agent** *Oct 2026*
  WebRTC, LiveKit, Deepgram, Google Gemma, Cartesia TTS **[GitHub]**
  –Built an IMF-themed real-time voice agent with low-latency bidirectional audio over WebRTC and LiveKit.
  –Integrated Deepgram STT, Google Gemma and Cartesia TTS with context retention and role-based guardrails.
- **CampusFlow: Real-Time Collaborative Workspace** *Jun 2026–Aug 2026*
  React.js, Node.js, Express.js, MongoDB, Socket.IO, Octokit, JWT, PDFKit **[GitHub]**
  –Engineered a collaborative workspace with GitHub synchronization using Octokit APIs, webhooks and atomic upserts.
  –Built real-time Kanban collaboration using Socket.IO rooms, optimistic UI, JWT middleware and 3-tier RBAC.
  –Developed PDF and CSV export pipelines for analytics and repository reports using PDFKit and Node Canvas.
- **Institute Transit Database System** *Oct 2026–Present*
  PostgreSQL, Express.js, Node.js, ER Modelling **[GitHub]**
  –Designing normalized schemas and query pipelines for routes, trip requests, bookings and schedule validation.

Technical Skills

- **Languages:** C++, JavaScript, SQL, HTML5, CSS3
- **Frontend:** React.js, Next.js, Tailwind CSS, Three.js
- **Backend & Databases:** Node.js, Express.js, PostgreSQL, MongoDB, MySQL, Socket.IO
- **AI & Tools:** Google Gemma, WebRTC, LiveKit, Git, GitHub, LaTeX

Key Courses Taken

- **Mathematics:** Linear Algebra, Basic Calculus

Positions of Responsibility

- **Member**, The Quiz Club, IIT Indore *Oct 2025–Present*
- **Volunteer**, The Math Club, IIT Indore *Jan 2026–Present*
- **Volunteer**, The Programming Club, IIT Indore *Feb 2026–Present*
- **Domain Lead**, Google Developer Groups on Campus, IIT Indore *Feb 2026–Present*

Achievements

- **Qualified**, IOQM (twice) *2024, 2025*
- **Qualified**, NSEA *2024*
- **Qualified**, NSEP *2025*
- **AIR 76**, Srinivasa Ramanujan Mathematics Competition (Stage 2 Qualifier) *2026*
- **AIR 220**, Optiver Integral Cup (Stage 2 Qualifier) *2026*
- **Max Rating – 1630 (Expert)**, Codeforces *2026*