Ayush Thakur

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EDUCATION

Course	College / University	Year	CGPA / %
B.Tech (CSE)	Netaji Subhas University of Technology	2027	7.46
CBSE (Class XII)	DAV Public School, Sreshtha Vihar	2023	95%
ICSE (Class X)	Holy Angels Sr. Sec. School	2021	95.8%

INTERNSHIP

- **Research Intern | Netaji Subhas University of Technology | New Delhi**　　　**Mar 2025 - Present**
  - Developing novel 3D deep learning models for preoperative segmentation of meningioma tumors using PyTorch as part of the MICCAI BraTS 2025 Lighthouse Challenge under Dr. Ankur Gupta.
  - Implementing advanced image preprocessing, data augmentation, and training strategies to enhance the accuracy and generalizability of tumor segmentation models.

PROJECTS

- **EcoMitra** | *NextJS, PostgreSQL, Prisma* | Github | Deployed Link
  - Built a dashboard summarizing banking statements for 50+ active users.
  - Added AI-driven features such as budget tracking, expense categorization, and investment education to improve users' financial literacy.
- **Insights** | *NextJS, PostgreSQL, Gemini/Exa* | Github | Deployed Link
  - Developed an AI-powered full-stack search engine with dynamic query classification (Gemini 2.5 + Exa for web search) and intelligent context refinement.
  - Improved the user experience with source citations and multi-format exports (PDF, Markdown, Word, Text) to support smooth, interactive searching.

POSITIONS OF RESPONSIBILITY

- **Senior Developer** | *Devcomm (International Developers' Community), NSUT*　　　**Jun 2025 - Present**
  - Led 50+ developers in designing a gamified DSA practice platform to boost competitive coding skills.
  - Developed an animated Avinya'25 site with React and Framer Motion, focused on responsive, smooth UI/UX.
- **Web Dev Mentor** | *Google Developer Student Clubs, NSUT*　　　**Oct 2024 - Present**
  - Mentored 30+ students through hands-on sessions on full-stack projects.
  - Built a Next.js + PostgreSQL CMS for event and blog management, reducing manual effort by $\approx 50\%$.

ACADEMIC ACHIEVEMENTS

- Innohacks'24 Winner: Improved e-commerce logistics with efficient routing and polygon-based delivery zones.
- JEE Mains: 99.44 percentile (AIR 6572) among 1.1M candidates.

OTHER INFORMATION

- **Languages**: Javascript, Rust, Golang, SQL, Python, C++/C
- **Frameworks**: React, Next.js, Vue, Svelte, Flask, Django
- **ML & Data Tools**: Matplotlib, Numpy, scikit-learn, PyTorch, Monai, Langchain, Transformers, OpenCV