Khushvendra Singh

B.Tech in Artificial Intelligence and Data Science
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Education

Degree/Certificate	Institute/Board	Score	Year
B.Tech in AI and Data Science	Indian Institute of Technology Jodhpur	8.85 / 10.0	2024 – 2028
Senior Secondary (Class XII)	CBSE Board	94.4%	2024
Secondary (Class X)	CBSE Board	84.8%	2022

Projects

- **Torrentium – Decentralized File Sharing System** — Jun 2025 – Aug 2025 — GitHub
  Go (Golang), Libp2p, SQLite, WebRTC
  - Built a peer-to-peer file sharing system in Go using libp2p Distributed Hash Table (DHT) for peer discovery, removing dependency on central servers.
  - Designed chunk-based file transfer using WebRTC data channels for high-speed direct communication between peers.
  - Implemented a reputation scoring model backed by SQLite to measure peer reliability and improve trust across the network.

- **Student Senate Portal – IIT Jodhpur** — Jun 2025 – Aug 2025 — GitHub
  Next.js, React, Tailwind CSS, Framer Motion
  - Developed the official IIT Jodhpur Student Senate portal with React and Next.js, providing a centralized information hub.
  - Implemented a 3D cube-based interface for exploring societies and clubs, improving student engagement.
  - Applied Tailwind CSS and Framer Motion to deliver a modern, responsive UI with smooth transitions.

- **Alumni Globe – Alumni Mapping Platform** — Sep 2024 – Oct 2024 — GitHub
  Three.js, Next.js, MongoDB, Mapbox
  - Built a 3D interactive globe to visualize 500+ IIT Jodhpur alumni worldwide using Mapbox GL JS.
  - Leveraged Next.js server-side rendering to cut initial load time by 60%, improving usability on low bandwidth networks.
  - Integrated clustering and pop-up cards for scalable visualization of alumni profiles.

Technical Skills

- **Languages:** Go (Golang), Python, C, C++, JavaScript, TypeScript, SQL, HTML/CSS
- **Frameworks/Libraries:** Node.js, React, Next.js, Three.js, Express.js, Libp2p
- **Databases:** PostgreSQL, MongoDB, SQLite
- **Tools/Platforms:** Git, GitHub, Docker, Postman, Vercel, AWS, Render, VS Code
- **Core Areas:** Data Structures and Algorithms, OOP, Peer-to-Peer Networks, Full-Stack Development

Positions of Responsibility

- **Student Guide,** Student Wellbeing Committee — Jul 2025 – Present
  - Mentored 12 first-year students in academics and campus life, supporting smooth transition into IIT Jodhpur.
  - Organized orientation sessions for 500+ incoming students, boosting early participation in student clubs.

- **Coordinator,** Society of Alumni Affairs, IIT Jodhpur — Jul 2025 – Present
  - Coordinated Alumni-Student Mentorship Program (ASMP), connecting 25+ alumni mentors with 120+ students.
  - Led the "InternBridge" initiative, facilitating internship opportunities for 25+ students through alumni networks.
  - Conducted alumni seminars, networking sessions, and a 24-hour hackathon with alumni judges during SANDSTONE 2025 (Institute Industry Day).