

ADITYA KUMAR

Student - B.Tech in Computer Science (Artificial Intelligence)

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SUMMARY

I am a B.Tech student specializing in Artificial Intelligence with a strong background in developing innovative software solutions. Throughout my education, I have engineered advanced search algorithms and autonomous systems, demonstrating my ability to tackle complex technical challenges. My leadership experience in hackathons has further honed my skills in team collaboration and project management, positioning me well for future opportunities in technology.

EDUCATION

B.Tech in Computer Science (Artificial Intelligence)

University School of Information and Communication Technology (USICT)

08/2024 - 06/2028 New Delhi, India

Senior Secondary

Kendriya Vidyalaya (CBSE)

Secondary

Kendriya Vidyalaya (CBSE)

KEY ACHIEVEMENTS



Academic Achievements

Developed high-performance search services, engineered an autonomous AI agent, and contributed to a semantic search engine during academic projects, showcasing technical expertise and innovative problem-solving skills.

SKILLS

Gmail	Vercel	GitHub	MongoDB	Adobe Flash	Python	SQL	C/C++	HTML	CSS	Numpy	Git
REST	API Design	Data Structures	OOP								

TRAINING / COURSES

Relevant Coursework

Database Management Systems, Operating Systems, Data Structures & Algorithms, Object-Oriented Programming

PROJECTS

Real-Time Chat Application with End-to-End Encryption

11/2025

Real-Time Chat Application focused on building a secure, scalable messaging platform with low-latency communication and strong data privacy.

- Developed full-stack chat system using React, Node.js, and WebSocket for real-time bidirectional messaging
- Implemented end-to-end encryption using AES-256 and RSA key exchange to ensure message confidentiality
- Designed scalable backend architecture with Redis pub/sub and PostgreSQL for message storage
- Built user authentication and authorization using JWT and role-based access control
- Optimized socket handling and database indexing, achieving sub-30ms message delivery latency under normal load
- What was a successful outcome of your work? (e.g. Raised \$3,000 for the charity)