ANSHU KUMARI JHA

B.Tech. - Information Technology

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BRIEF SUMMARY

Motivated and detail-oriented B.Tech student specializing in Information Technology at Dr. Akhilesh Das Gupta Institute of Technology & Management, graduating in 2026. Skilled in C++, Data Structures, Web Development, and Data Science with hands-on experience in building an E-voting system and Skillshare website. Completed the IBM Data Science & Visualization certification and actively participated in national-level ideathons, including Smart Delhi Ideathon (Top 100 teams out of 1000). Currently enhancing full-stack development skills through project-based learning and aiming to contribute effectively in tech-driven environments.

KEY EXPERTISE

HTML | CSS | Javascript | React.js | PostgreSQL

EDUCATION

Dr. Akhilesh Das Gupta Institute of Professional Studies, New Delhi 2022 - 2026

B.Tech. - Information Technology | Percentage: **75.33** / **100**

kasturba Institute of Technology, Pitampura Delhi 2021

Diploma | Diploma - Computer Science and Engineering - Computer Science and Engineering | BTE Delhi |
Percentage: **75** / **100**

60242-Sampurnanand Sarvo G SSS-1 C-BLK Yamuna Vihar DL, East Delhi 2018

10th | CBSE | Percentage: **68** / **100**

INTERNSHIPS

Uptoskills 14 Jul, 2025 - 14 Oct, 2025

Key Skills: Node.js | GIT | CSS | ReactJS | Express.js | MongoDB | Javascript | HTML5 | MySQL

- Developed responsive, mobile-first interfaces using React.js and Tailwind CSS.
- Built REST APIs using Node.js, Express.js, and MongoDB.
- Collaborated using Git and GitHub with structured workflows.

cantilever 24 Jul, 2024 - 24 Aug, 2024

Worked extensively on front-end development using modern web technologiesincluding HTML5, CSS3, JavaScript, and Tailwind CSS to create engaging and
intuitive user interfaces.

- Created dynamic and reusable UI components with React.js, gaining comprehensive understanding of component lifecycle and stat e management for enhanced
application performance.
- Developed strong understanding of API communication between frontend a n d backend systemsthat are ensuring seamless data flow

PROJECTS

SkillShare - Peer-to-Peer Microlearning Platform

Key Skills: HTML5 | CSS | Javascript | React.js | TailwindCSS | Node.js | Mongodb

Project Link: https://skillshare-app.vercel.app

A collaborative learning platform where users exchange skills instead of money. Users can list the skills they have and the ones they want to learn, get matched with suitable peers, schedule video sessions, and chat in real-time. The platform is designed for students and communities to upskill through short, practical, and affordable learning interactions.

CyberVault – Biometric File Encryption Application

Key Skills: HTML5 | css | Javascript | ReactJS | Node.js | Express.js | GIT | MySQL | MongoDB

Project Link: https://cybervault-electron-react.vercel.app/

Engineered a privacy-focused file encryption system featuring tri-modal biometric authentication (face, iris, fingerprint) with AES-256-GCM encryption and
PBKDF2 key derivation.

- Implemented client-side encryption architecture, automatic vault locking with session management, and secure backup/restore

functionality.
• Integrated TensorFlow.js for facial recognition, OpenCV.js for iris detection, and W3C WebAuthn for hardware-backed fingerprint authentication, providing
layered security with zero-knowledge data protection.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Multi-Layer Authentication with Neural Biometrics for Secure Client-Side File Encryption 11 Nov, 2025

International Journal of Computer Sciences and Engineering(IJCSE) | **Mentor:** Dr Rupinder Kaur | **No. of Authors:** 5

Key Skills: Neural biometrics AES-256-GCM PBKDF2-SHA256 WebAuthn

Secure local data storage is increasingly important as cloud-based systems remain vulnerable to breaches and surveillance. This paper presents an offline client-side file security system that combines AES-256-GCM encryption with multilayer authentication driven by neural biometrics. Face, iris, and fingerprint recognitions are integrated with PBKDF2-SHA256 key derivation. WebAuthn and deep-learning models support fast and accurate validation of biometrics without any external servers. Experimental results have shown that authentication latency remains low, averaging 3.66 ms for face recognition, 2 ms for iris detection, and 3.6 ms for fingerprint verification, thus allowing for smooth real-time operation. It retains full functionality even offline, ensuring a high level of data sovereignty by avoiding cloud exposure risks. In general, this work represents a privacy-first, cross-platform encryption solution to improve the security and usability of neural biometric authentication along with device-level cryptography.

PERSONAL DETAILS

Gender: Female
Date of Birth: 30 Sep, 2002
Marital Status: Single
Known Languages: Hindi and English
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