

# MANSI SHARMA

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## SUMMARY

Computer Science undergraduate skilled in C++, Python, and SQL with strong foundations in Data Structures, DBMS, and OOP. Hands-on experience developing secure authentication systems and encryption-based applications using industry tools and best practices. Seeking entry-level software engineering or cybersecurity roles focused on scalable and reliable solutions.

## PROJECTS

### Banking Management System | SQL, RDBMS

- Designed normalized relational schemas across Customer, Account, and Transaction tables to ensure high data integrity and consistency
- Developed complex SQL queries and reporting modules to analyze high-volume financial data and detect suspicious transaction patterns.
- Implemented Stored Procedures and Triggers to automate banking workflows, reducing manual processing errors and ensuring ACID compliance.

### Image Encryption System | Python, Cryptography

- Architected a security-focused application using XOR Cipher algorithms for robust pixel-level data protection during encryption and decryption.
- Optimized image processing performance by integrating NumPy and PIL, significantly improving computational efficiency for large datasets.
- Integrated support for user-defined cryptographic keys, allowing for customizable security layers across multiple image formats.

### Event Authentication system | C++, Security

- Built a secure authentication framework with encrypted user registration and multi-factor login modules.
- Programmed rigorous validation logic to prevent duplicate entries and resolve scheduling conflicts, enhancing system reliability.
- Engineered a menu-driven CLI with structured error handling to improve usability and reliability.

## EDUCATION

- B.Tech in Computer Science & Engineering** | Lovely Professional University (Aug 2022 – Present)  
CGPA: 7.00
- Intermediate (Class XII)** | B.P. Inter College, Meerut (May 2020 – Jul 2021) | 76.86%
- High School (Class X)** | B.P. Inter College, Meerut (May 2018 – Apr 2019) | 85.67%

## CERTIFICATIONS | TECHNICAL PROFICIENCY | ACTIVITIES

- Certifications:** Oracle OCI Generative AI, NPTEL Cloud Computing, Ethical Hacking, Data Structures & Algorithms (LPU), Digital Forensics.
- Technical Proficiency:** C++, Java, Python, SQL; MySQL; Wireshark, Nmap, Kali Linux; Git, GitHub; OOP, DBMS, RDBMS, DSA
- Extracurricular Activities:** NGO project promoting traditional art and craft awareness; Inter-hostel badminton participant; Member of the University Bhangra club; Attended AR/VR game design workshop; College fest volunteer; Completed communication and public speaking workshop.