

Tanvi Bansal

+91-8955721475 | bansaltanvi2004@gmail.com | 22ucs217@lnmiit.ac.in
LinkedIn | Portfolio | Leetcode

Education

The LNM Institute of Information Technology	2022 – 2026
B.Tech in Computer Science Engineering	CGPA: 8.43/10
Delhi Public School, Jodhpur	2008 – 2022
Higher Secondary Education	Intermediate: 96.8% — Matriculation: 97.0%

Technical Skills

- Languages:** JavaScript, Python, C/C++, Java, HTML/CSS, MySQL
- Frameworks & Libraries:** React.js, React Native, Node.js, Express.js, MongoDB
- Developer Tools & OS:** Git, GitHub, Firebase, VS Code, Google Colab, Figma, Windows, Linux
- Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, OOPs, Computer Networks, Game Theory, Software Engineering (SDLC and SRS)

Projects

WhirlWash - Hostel Laundry Management System	Jan 2025 – Present
React Native, Firebase, JavaScript	
<ul style="list-style-type: none">Engineered a comprehensive mobile application designed to serve 500+ hostel students and reduce wait times by 40%Implemented secure user authentication system with email verification, targeting 99% verification success rateDesigned resource allocation algorithm projected to increase machine utilization by 35% and reduce conflicts by 70%Developed intuitive mobile interface with expected 95% user satisfaction based on initial prototype testing	
AI Driven Decision Support System for Water Quality of River Ganga	Nov - Dec 2024
Data Processing, Data Generation, LSTM, Federated Learning, Web Development, UI/UX Design	
<ul style="list-style-type: none">Integrated 10+ datasets (satellite, IoT, meteorological) to predict river flow and water quality with over 72.8% accuracy.Used a Bidirectional LSTM model for 5-day time series forecasts of key parameters, demonstrating expertise in time series modeling, optimization, and large-scale data analysis.Used 20 years of historical data and live updates, enhancing prediction reliability by 40%	

Technical Achievements

Smart India Hackathon 2024 - National Winner	Dec 2024
Ministry of Jal Shakti Problem Statement SIH1694	
<ul style="list-style-type: none">Secured first place among 1500+ teams nationwide, winning cash prize of INR 1,00,000	
Rajasthan Ideation Hackathon - Hack the Waste 2023	May 2023 – Jun 2023
State-level Hackathon focused on sustainable waste management	
<ul style="list-style-type: none">Won first prize and cash award of INR 50,000 for developing practical waste management solution	

Professional Experience

Teaching Assistant	
Database Management Systems Lab, Operating Systems Lab, Computer Networks Lab	
<ul style="list-style-type: none">Assisted students in understanding Computer Science Fundamental concepts, providing support in debugging and optimizing their solutions during the labs.	

Leadership Experience

Training, Placement and Corporate Relations Cell	May 2023 – Present
Senior Executive, LNMIIT Jaipur	Placement Coordination
<ul style="list-style-type: none">Coordinate campus recruitment processes between 50+ companies and 500+ students at LNMIITOrganize technical workshops and 300+ mock interviews to improve placement success rates	
The Counseling and Guidance Cell	Aug 2023 – Present
Associate Coordinator, LNMIIT Jaipur	Student Leadership
<ul style="list-style-type: none">Streamlined accommodation and document verification processes for 700+ students during admissionsConducted orientation sessions for 500+ new students on university resources and procedures 92% positive feedback rating	

Additional Experience

- DSA Proficiency:** Solved 400+ problems on LeetCode and various competitive coding platforms
- Soft Skills:** Leadership, Public Speaking, Team Management, Time Management, Communication