

# Pranshul Yadav

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## EDUCATION

Galgotias University  
Bachelor of Technology (B.Tech), Computer Science and Engineering

Greater Noida, India  
2023 – 2027

## SKILLS

**Technical:** SQL, Python, Java

## CERTIFICATIONS

- Python – Jan'24 (<https://www.guvi.in/verify-certificate?id=U5g9d401n2m09se787>)
- Java for Beginners – Nov'24 (<https://www.guvi.in/verify-certificate?id=K70v26X5321j7i0m32>)

## PROJECTS

### Water Management System

04/2024 – 05/2024

- Led the development of a smart Water Management System to monitor and optimize water consumption in residential buildings.
- **Tools:**
  - **Backend:** Python, MySQL
  - **Frontend :** Tkinter
- **Results:**
  - Reduced water wastage by up to **35%** through early leak detection.
  - Enabled real-time monitoring across **500+ households**.
  - Provided actionable insights leading to a **20% decrease** in average water bills.

### Library Management System

10/2024 – 02/2025

- **Led a team of 4 members** to develop a Library Management System, demonstrating strong **leadership, decision-making, and delegation** skills to ensure the project progressed efficiently.
- Managed the backend, including designing and implementing the system's core functionality using **Java** and **MySQL**.
- Coordinated team efforts and facilitated open communication among team members, leveraging **empathy, active listening, and conflict resolution** to keep the project on track.
- Utilized **time management** and **prioritization** skills to ensure timely delivery of key project milestones while maintaining high-quality standards.
- Automated library operations by developing a centralized system for book tracking, user management, and transaction handling.
- **Results:**
  - Reduced manual work and human error by **90%** through automation
  - Improved book tracking and reduced overdue instances by **40%**
  - Enhanced user experience with a self-service portal for browsing, issuing, and reserving books
- **Tools:**
  - **Backend:** Java, MySQL
  - **Frontend:** HTML, CSS, JavaScript
  - **Deployment:** Apache Tomcat