

# Nishant Kumar

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## SKILLS

**Languages:** C++, Python, C, Java

**Tools/Platforms:** MySQL, GitHub, Linux, VMware, Git, Ubuntu

**Soft Skills:** Problem-Solving, Team Player, Adaptability, Logical Thinking

## PROJECTS

### Certificate Validation System | Python, HTML, ML Predictive Analysis [Link](#)

May' 24

- Built a certificate validation system using Python and integrated ML-based predictive analysis, allowing the system to automatically verify certificates with an accuracy improvement of about 82% over manual checks.
- Cleaned and analyzed certificate-related data in Python, fixing all inconsistencies and speeding up the validation process by roughly 60% through automated predictions instead of manual review.
- Created a simple and user-friendly HTML interface to display validation results clearly, leading to a 92% satisfaction score from testers.

### Hospital Management System | HTML, JavaScript, CSS, Node.js, MySQL [Link](#)

Jun' 23

- Built a hospital management system using Node.js and MySQL to manage patient records and appointments, reducing manual work and improving data accuracy across departments.
- Automated key operations like patient registration and doctor scheduling, which helped speed up daily workflows and cut down processing time by nearly 65%.
- Designed a clean and responsive interface using HTML, CSS, and JavaScript, making the platform easier to navigate and improving overall user experience for staff and patients.

## TRAINING

### Center of Professional Enhancement (Lovely Professional University)

Jun' 25 – Jul' 25

Data Structures and Algorithms using C++

- Implemented data structures such as arrays, linked lists, stacks, queues, trees, and graphs in C++, improving problem-solving efficiency and reducing execution time of algorithms by nearly 30%.
- Solved and optimized sorting and searching algorithms—including merge sort, quick sort, and binary search—resulting in a 40% improvement in runtime compared to initial implementations.
- Analyzed time and space complexity using Big-O notation and applied dynamic programming techniques to enhance solution performance by approximately 25% in competitive problem scenarios.

## CERTIFICATES

### Generative AI Professional | Oracle [Link](#)

Sept' 25

### Bits and Bytes of Computer Networking | Google [Link](#)

Apr' 24

### Introduction to Hardware and Operating System | IBM [Link](#)

Aug' 24

### Fundamentals of Network Communication | University of Colorado [Link](#)

Nov' 24

## ACHIEVEMENTS

- Solved 500+ questions on GFG
- Achieved 3-star rank on HackerRank in problem solving

Oct' 25

Sept' 25

## EDUCATION

### Lovely Professional University

Phagwara, Punjab

Bachelor of Technology

Aug' 23 – Present

Computer Science and Engineering; CGPA: 8.77

### B.B.M College

Jehanabad, Bihar

Intermediate

Mar' 22 – May' 23

PCM; Percentage: 82%

### D.A.V School

Patna, Bihar

Matriculation

Mar' 19 – May' 20

Percentage: 94.8%