

## Divyam Katiyar

Kanpur, Uttar Pradesh

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### Training

#### C++ Programming: OOPs and DSA | CSE Pathshala

About:

June 2024 – July 2024

**Debugging and Code Optimization:** Identified bugs and optimized code for better performance, focusing on time and space complexity improvements.

**Designed and Evaluated Coding Project:** Created challenging coding problems and projects to test core concepts in Object-Oriented Programming (OOP) and Data Structures & Algorithms (DSA)

**Real-World Case Studies:** Incorporated real-world scenarios to demonstrate the practical applications of OOP and DSA, making learning more relevant and engaging.

#### Tech Stacks Used:

C++: Primary language for coding exercises and projects, STL (Standard Template Library): Used for efficient data manipulation and algorithm implementation, OOP (Object-Oriented Programming): Emphasized key concepts like inheritance, polymorphism, encapsulation, and abstraction, DSA (Data Structures & Algorithms): Covered essential data structures (arrays, linked lists, trees, graphs) and algorithms (sorting, searching, dynamic programming, greedy algorithms). Focused on complexity analysis for optimized solutions.

### Projects

#### CSE PATHSHALA: Student Management System

June 2024 – July 2024

Developed a C++-based console/GUI application to manage student records efficiently.

Implemented CRUD operations (Create, Read, Update, Delete) for student details, grades, and attendance.

Utilized Object-Oriented Programming (OOP) principles such as Encapsulation, Inheritance to structure the system.

**Tech:** C++, STL, OOP, DSA, File Handling

#### CSE PATHSHALA: Student Voting System

June 2024-2024

Developed a C++-based voting system to allow students to vote securely for elections (e.g., student council, class representatives).

Implemented user authentication to prevent multiple votes using unique student IDs.

Utilized file handling (text/CSV/JSON databases) for storing votes and candidate details securely.

Designed a menu-driven system for easy navigation, vote casting, and result display.

Integrated real-time vote counting and result calculation using efficient algorithms.

Applied Object-Oriented Programming (OOP) principles (Encapsulation, Inheritance, and Polymorphism) for modular and maintainable code.

**Tech:** C++ (OOP, File Handling, STL)

### Certificates

Web and Mobile Testing with Selenium

September 2024

Introduction to Software Testing

March 2024

### Technical Skills

**Languages** C++, Java

**Frameworks:** HTML, CSS

**Skills:** MySQL, Oracle, Selenium, Eclipse, Figma, Problem-Solving Skills, Team Player, Adaptability

### Education

Lovely Professional University Punjab

2022 – 2026

Computer Science and Engineering — CGPA: 4.5

Jalandhar, Punjab

Delhi Public School

2020– 2022

12th with Science — Percentage:93%

Siliguri, West Bengal

Delhi Public School

2018– 2019

10th with Science — CGPA: 94%

Siliguri, West Bengal