

# Saurabh Kumar Mohanka

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## SKILLS

- **Languages:** Java, C++, Python, C, S Q L
- **Frameworks:** HTML and CSS, JavaScript
- **Tools/Platforms:** Linux, Wireshark, Nmap, FTK imager, Autopsy, MYSQL
- **Soft Skills:** Adaptability, Business Awareness, Human Resource

## SUMMER TRAINING

“Object Oriented Programming using C++”

- Successfully completed the "Object Oriented Programming using C++" course offered by Centre for Professional Enhancement, Lovely Professional University, covering both fundamental and advanced concepts.
- **Data Structures & Algorithms Implementation**
- **Object-Oriented Design Principles**  
Utilized **Encapsulation**: Wrapped data structures within well-defined classes.
- **Competitive Programming & Real-World Applications**  
Solved [X]+ coding problems on **LeetCode**, **CodeChef**, **GeeksforGeeks**, applying learned techniques.

## PROJECT

### Restaurant Website

- Technologies Used: HTML, CSS
- Responsive & User-Friendly – Seamless experience across mobile & desktop.
- Modern Layout – Flexbox & CSS Grid for structured sections (chefs, menu, reservations).
- Interactive UI – Smooth animations, hover effects, and engaging visuals.
- Optimized Performance – Fast loading with compressed images & minified CSS.
- Cross-Browser Compatibility – Consistent interface on all browsers.
- Branding & Aesthetics – Stylish fonts, colors & an immersive image gallery.
- SEO-Optimized – Improved search ranking with semantic HTML & meta tags.
- Customer Engagement – Testimonials, pricing table, and smooth navigation.

### Sudoku Solver using Data Structures & Algorithms

- Efficient Algorithm: Solves 9x9 Sudoku using Backtracking with recursive logic.
- Optimized Performance: Improved  $O(9^n)$  complexity using constraint propagation & pruning.
- Smart Heuristics: Applied MRV & Forward Checking for better decision-making.
- Tech Stack: Java, Recursion, 2D Arrays, Algorithm Optimization.
- Interactive UI: Designed CLI/GUI for real-time visualization & input validation.

## CERTIFICATES

- |  |                    |
|--|--------------------|
| • NPTEL – Introduction to Internet of Things | Jun 2024- Dec 2024 |
| • CompTIA Linux+ XK0-005                     | Jan 2024- Apr 2024 |
| • Digital Forensics Essentials               | Aug 2024- Dec 2024 |
| • Ethical Hacking Essentials                 | Jul 2024- Dec 2024 |
| • Penetration Testing and Ethical Hacking    | Aug 2024- Nov 2024 |
| • Prompt Engineering for ChatGPT             | Jan 2024- Mar 2024 |

## EDUCATION

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|---|--|
| ○ <b>Lovely Professional University</b><br><i>Bachelor of Technology - Computer Science and Engineering</i> | Punjab, India<br>Since August 2022         |
| ○ <b>Lord Buddha Public School</b><br><i>Intermediate</i>   | Kota, Rajasthan<br>April 2019 - March 2021 |
| ○ <b>R.S.M Public School</b><br><i>Matriculation</i>  | Supaul, Bihar<br>April 2018 - March 2019   |