

Shweta Lohan

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Certification

- **Ethical Hacking – NPTEL** (April 2024 – Oct 2024)
Successfully completed an NPTEL course on Ethical Hacking, acquiring hands-on experience in cybersecurity, penetration testing, and vulnerability assessment.
- **Data Structures and Algorithms – GeeksforGeeks** (March 2024 – July 2024)
Completed a comprehensive course on Data Structures and Algorithms, strengthening problem-solving skills, algorithmic thinking, and coding efficiency.
- **National Talent Search Examination (NTSE) Scholar – NCERT** (Aug 2020 – Jan 2021)
Recognized for academic excellence in India's prestigious national-level scholarship program, awarded for exceptional aptitude in mathematics, science, and analytical reasoning.

Project

- Sudoku Solver | C++, Backtracking Algorithm (Sep 2022 - Nov 2022)
- Developed a **Sudoku Solver application** that efficiently solves 9x9 Sudoku puzzles using the **backtracking algorithm**.
 - Designed an interactive **CLI-based interface** for user-friendly input and solution visualization.
 - Implemented **constraint propagation** to optimize solving speed and enhance algorithmic efficiency.
 - Utilized **C++ STL** for efficient data handling and **recursion** for solving complex Sudoku grids.
 - Applied **Data Structures & Algorithms (DSA) concepts** to ensure an optimized and structured approach.

Certificates

- **Generative AI** (Jan 2023 - May 2023)
Coursera — [<https://www.coursera.org/learn/genai-for-everyone/home/module/1>]
- **Design and Analysis of Algorithms (DAA)** (Jan 2023 - May 2023)
Coursera — [<https://www.coursera.org/learn/dynamic-programming-greedy-algorithms/hom>]
- **Mastering Data Structures & Algorithms using C and C++** (Aug 2023 - Nov 2023)
Udemy — [<https://www.udemy.com/course/datastructuresncpp/learn/lecture/15346782#content>]

Technical Skills

Languages C++, Java, python

Technologies/Frameworks: AWS, Google Cloud, Azure, GitHub, Ubuntu

Skills: AWS, Microsoft Azure, Google Cloud

Education

Lovely Professional University <i>Computer Science and Engineering</i>	2022 – 2026 <i>Jalandhar, Punjab</i>
Tagore Sr. Sec. School <i>12th with Science — Percentage: 85%</i>	2021 – 2022 <i>Hisar, Haryana</i>
Tagore Sr. Sec. School <i>10th with Science — Percentage: 91.4%</i>	2019 – 2020 <i>Hisar, Haryana</i>