

# Sunny kumar

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## EDUCATION

**National Institute of Technology**, Hamirpur, Himachal Pradesh  
*Bachelor of Mathematics and Scientific computing*  
CGPA -7.95

May 2025

**Relevant Courses:** Data Structure and Algorithm ; Analysis and Design of Algorithm ; Programming Languages ; Operating System ; Database Management System ; Object Oriented Programming ; Probability Theory ; Time Series Analysis ;

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## TECHNICAL SKILLS

**Software/Tools:** Visual Studio code, MATLAB, Jupyter Notebook

**Programming Languages:** C/C++, Python, HTML, CSS, JavaScript

**Soft Skills:** Teamwork, Problem Solving, Leadership, Dedicated

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## PROJECTS

### Data Hiding Technique Using Cryptography and Steganography

Sept - 2024

- Developed a secure data hiding system that utilizes cryptography and steganography techniques to embed and extract confidential messages within images.
- Includes data encryption using Caesar Cipher, implementation of Least Significant Bit (LSB) steganography, and image processing for secure data embedding.

**Technologies Used:** Python

### Supermarket Billing System

Oct - 2024

- Designed a Supermarket billing system using Object Oriented Programming
- Developed features such as item addition/removal, bill generation, and inventory management.

**Technologies Used:** C++, OOP, File Handling

### Sudoku Solver

May - 2024

- Created a C++ program to solve 9x9 Sudoku puzzles using a backtracking algorithm.
- Incorporated safety checks for legal number placement.
- Developed a utility function to display the Sudoku grid before and after solving.

**Technologies Used:** C++, Backtracking, Data Structure and Algorithm

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## EXPERIENCE

### Internship at Bit Sindri

July 2024

#### *Project-Fault Detection in WAAM*

- Engineered a fault detection system for the WAAM process by analyzing welding arc acoustics signals using machine learning algorithms.
- Achieved approx 74% accuracy in detecting the fault.

**Technologies Used:** Python, Machine Learning

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## ACHIEVEMENTS

- Solved 400+ problems on LeetCode, ranking in the top 15% globally, showcasing strong problem-solving and algorithmic skills.
- Represented Himachal Pradesh in state-level basketball tournaments, demonstrating teamwork, leadership, and dedication.