

AAYUSHI SHARMA

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Location: Dehradun, Uttarakhand, India

EDUCATION

- **Bachelor of Technology – Computer Science & Engineering** 2023-2027
Graphic Era Hill University, Dehradun
- **Intermediate** 2022
Jawahar Navodaya Vidyalaya, Haridwar
- **Matriculation** 2020
Jawahar Navodaya Vidyalaya, Haridwar

PROJECTS

- **Mini Operating System with Core Functionalities (Jul 2025 – Oct 2025):**
 - This project is about creating a **mini operating system** that performs the basic tasks of a regular OS, like managing processes, memory, files, and input/output operations.
 - The system follows a **modular architecture**, where each core function of an OS is treated as a separate module. These modules are Process Management Module, Memory Management Module, Boot Loader Module, Kernel Module, File Management Module, Input/Output Module.
- **Graph Traversal Algorithms Visualizer (Feb 2025 – May 2025):**
 - A web-based educational tool that helps users to understand core graph algorithms through interactive visualizations. It supports BFS, DFS, Dijkstra, Bellman-Ford, Floyd-Warshall, Kruskal's, Prim's, Topological Sort, Kosaraju's, Tarjan's, and Disjoint Set Union (DSU).
 - The tool is developed using **Flask** (backend), **NetworkX** (algorithm processing), and **Cytoscape.js** (interactive frontend visualization). It delivers real-time, browser-based graph animations with side panels displaying node visits, edge selections, and operation details.
- **Image-based and Audio-based Steganography (Nov 2024 – Dec 2024):**
 - It is a user-friendly web application that helps people hide and reveal secret messages inside image and audio files using steganography.
 - The tool is developed using Python with the Flask web framework, which makes it easy to manage different parts of the app and handle user requests smoothly.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, SQL, HTML/CSS
- **Developer Tools & Frameworks:** Anaconda, Git, Visual Studio, Oracle SQL, Flask
- **Coursework:** Data structure and algorithm, Operating System, DBMS
- **Operating System:** Windows, Linux, Ubuntu

SOFT SKILLS

- Problem Solving Skills, Detailed Oriented, Adaptability, Collaborative, Leadership Qualities

TECHNICAL CERTIFICATES

- **Google Cloud Computing Foundations** NPTEL (October 2024)
- **Design and Engineering of Computer Systems** NPTEL (April 2025)
- **Database Management System** NPTEL (September 2025)