

GULSHAN KUMAR



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LinkedIn



GitHub

EDUCATION

- **National Institute of Technology (NIT) Agartala** CGPA: 8.74
B.Tech in Computational Mathematics 2024 – 2028
- **Class XII (CBSE)** Percentage: 87.8%
Higher Secondary Education 2023
- **Class X (CBSE)** Percentage: 90.14%
Secondary Education 2021

PROJECTS

- **Amazon Home Page Clone** Nov 2025
Responsive E-Commerce Front End [Source Code Link](#)
 - **Frontend Engineering:** Developed a high-fidelity replica of the Amazon homepage using **Semantic HTML5** and **CSS3**, replicating the complex multi-column layout and visual hierarchy.
 - **Layout Design:** Implemented advanced **CSS Flexbox** and Box Model techniques to structure the navigation bar, hero section, and dynamic product grids without relying on external frameworks.
 - **Cross-Platform Optimization:** Engineered a fully **responsive interface** that adapts to varying screen resolutions, ensuring consistent content alignment and readability.
 - **Tech Stack:** HTML5, CSS3, Git, Javascript, Version Control.
- **DFS Path Finder** Dec 2025
Interactive Graph Traversal Engine [Live Demo Link](#)
 - **Algorithm Implementation:** Developed a traversal engine utilizing **Depth-First Search (DFS)** to compute path connectivity in complex **unweighted graph topologies**.
 - **Data Structure Logic:** Implemented an iterative **Stack (LIFO)** mechanism to simulate recursive backtracking, ensuring robust path exploration with **Time Complexity** $O(V + E)$.
 - **Dynamic Visualization:** Engineered a responsive grid system that renders **real-time backtracking** and node state changes using asynchronous DOM manipulation.
 - **Tech Stack:** JavaScript (ES6+), HTML5, CSS3, Data Structures (Stacks, Graphs).
- **Personal Portfolio Website** Oct 2025
Interactive Developer Showcase [Live Demo Link](#)
 - **User Experience (UX):** Designed a **scalable**, SEO-friendly portfolio featuring asynchronous JavaScript for seamless, non-blocking form validation.
 - **Web Performance:** Audited and optimized code to secure a 95+ Performance and Accessibility score on **Google Lighthouse**.
 - **Tech Stack:** HTML5, CSS3, JavaScript, Responsive Web Design.

ACHIEVEMENTS

- **Algorithmic Excellence:** Rated **2-Star Coder** at CodeChef ([gulshan3728k](#)) and demonstrating consistent problem-solving under time constraints.
- **Global Problem Solving:** Solved **200+ Algorithmic Problems** across LeetCode and Codechef, focusing on Dynamic Programming and Graph Theory. [\[LeetCode Profile\]](#)
- **Hackathon Innovation:** Qualified for the Internal Round of **Smart India Hackathon (SIH) 2025**, selected for proposing a novel technical solution to a real-world problem statement.

TECHNICAL SKILLS

- **Languages:** C, C++, JavaScript, HTML5, CSS3
- **Core Competencies:** Data Structures Algorithms (DSA), Object-Oriented Programming (Ooops), System Design Basics, Time Space Complexity Analysis
- **Developer Tools:** Git, GitHub, VS Code, Chrome DevTools
- **Soft Skills:** Agile Methodology, Technical Documentation, Collaborative Problem Solving