Naitik Singhal

Software Engineering Intern

naitiksinghal12345@gmail.com | 7000702047 | 100-A Kanti Nagar, Gwalior, M.P.

EDUCATION

BACHELOR OF TECHNOLOGY IN INTERNET OF THINGS (IoT)
MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR (M.P.)   **2022-2026 | CGPA: 8.89**
XII (CBSE), DELHI PUBLIC SCHOOL, GWALIOR (M.P.)   **2022 | 85.8%**
X (CBSE), DELHI PUBLIC SCHOOL, GWALIOR (M.P.)   **2020 | 89.2%**

PROJECTS

Portfolio, HTML | CSS | JAVASCRIPT
Designed and developed a **Responsive design** for seamless viewing across devices, showcasing my skills and projects. Explore detailed project descriptions with links to **GitHub repositories** and live demos. The site features dedicated sections for my skills, contact information, and even lets you download my CV.

COCOMO Calculator, HTML | CSS | JAVASCRIPT
This project **Web-based COCOMO calculator** using HTML, CSS, and JavaScript. This tool allows users to estimate the effort and cost required for software development projects based on their **size and complexity**.

Sorting Visualiser, PYTHON | MATPLOTLIB
This Python program allows for easy understanding and **visualization** of sorting algorithms. It implements **Bubble Sort, Selection Sort, and Insertion Sort**, generating a **random data set** and then visually depicting each step of the sorting process using **Matplotlib**. The final output showcases the sorted array.

4X4X4 LED Cube, ARDUINO IDE
This project is a compact, 4x4x4 LED cube functioning as a **prototype for larger 3D displays**. Built with **64 individually controlled LEDs**, it allows for the creation of captivating light patterns. **Wireless control via Bluetooth** enables pattern manipulation without physical connections.

Arduino Learners Kit, ARDUINO IDE
Collaboratively developed an Arduino kit designed to **simplify complex sensor connection** concepts for students. This innovative prototype fosters a passion for tech education by merging creativity with practical learning experiences.

ACHIEVEMENTS

- Max Rating **1496** on Codechef.
- Ranked **348** in Starters 126 2024 (Div 4), **301** in Starters 133 2024 (Div 3).
- **200+** DSA Problems across platforms.
- Technical member, **Geeks for Geeks Student Chapter, MITS**
- **3rd** Rank in **SCIENCE CLUB** Competition.
- Certification of 1 week Training Program in Power Engineering & Renewable Energy UIT RGPV Shivpuri (2024).

TECHNICAL SKILLS

- **LANGUAGES**: Java, C++, JavaScript, Python, Embedded C
- **IT CONSTRUCTS**: DS and Algorithms, OOPS, Operating System, Software Design, Computer Networks
- **DEVELOPMENT TOOLS**: Microsoft Visual Studio, GitHub