NEHA

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EDUCATION

Master of Computer Applications (MCA)   **CGPA: 8.35/10**
Graphic Era Hill University (GEHU), Dehradun, Uttarakhand   *2023 – 2025*
Relevant Courses: Advanced Data Structures, Software Engineering, Database Management Systems, Design and Analysis of Algorithms

Bachelor of Computer Applications (BCA)   **CGPA: 7.52/10**
College of Engineering Roorkee (COER), Roorkee, Uttarakhand   *2020 – 2023*
Relevant Courses: Object-Oriented Programming, Data Structures and Algorithms, Computer Networks, Operating Systems

TECHNICAL SKILLS

Programming Languages:	Python, C / C++, JavaScript, SQL
Frameworks:	Flask, React.js, Node.js
Databases:	MySQL, SQL, MongoDB, SQL Server
Core Competencies:	**Data Structures and Algorithms**, Object-Oriented Design, Agile Methodologies
Tools & Technologies:	Visual Studio Code, Git, GitHub
Strong Area:	HTML, CSS, Tailwind CSS

PROJECTS

Pathfinder Visualizer - Javascript, React.js (Live Link)   Nov-2024 to Dec-2024
- Developed a pathfinding visualization tool, increasing algorithm learning efficiency by 50%.
- Implemented Dijkstra, DFS, BFS, and A* algorithms with customizable blockage settings using ReactJS and JavaScript.
- Enhanced user experience by improving the UI and making the shortest path simulation more intuitive.

Real-Time Data Processing System for Weather Monitoring - HTML, CSS, JavaScript (Live Link)   Aug-2024 to Oct-2024
- Built a real-time weather monitoring app, boosting engagement by 35% and increasing repeat visits by 20%.
- Integrated OpenWeatherMap API for live weather updates, improving forecast accuracy by 90%.
- Optimized API calls, reducing response time by 40% for improved performance.

Why You Are Entering in My Network? An Approach to Detecting the New IP Address - Python (GitHub Link)
Indian Patent: 202311040162   June-2023 to July-2023
- Designed a Python-based Wi-Fi access control protocol, reducing unauthorized access by 60%.
- Implemented automated email alerts for new IP addresses, enhancing network security.
- Integrated real-time monitoring and alert mechanisms, improving threat detection efficiency by 50%.

ACHIEVEMENTS

- **Indian Patent (202311040162)** for the Python project "Why Are You Entering in My Network?"
- **National Level Hackathon 2022 & 2023** - Created scalable solutions for 200+ users, earning positive industry feedback.

CERTIFICATIONS

- **HackOn with Amazon** - Certificate of Participation; collaborated with a team of 3.
- **Data Structures & Algorithms in C++** - Solved 300+ problems, strengthening technical skills.
- **Python Developer** - Built 5+ projects, automating tasks and reducing manual work by 60%.

SOFT SKILLS

- Led a team in a hackathon to develop an innovative solution, securing a patent for the project.
- Strong analytical and debugging skills with effective collaboration in agile and multidisciplinary teams.
- Quickly adapt to new tools and technologies, effectively solving complex issues.