

AMISHA SINGH

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EDUCATION

National Institute of Technology, Silchar

- Bachelor of Technology - Computer Science and Engineering; CGPA: 8.28

Assam, India

December 2021-Present

EXPERIENCE

Satyendra Nath Bose Research Intern, NIT Silchar

Airthmatic Sphere Algorithm

June 2024 - Present

- Analyzing arithmetic sphere algorithm with Python libraries and 3D visualization tools, prioritizing accuracy and performance.
- The analysis focuses on applications in sphere generation, computer graphics, virtual reality, image processing, mathematical modeling, and data visualization.

PROJECTS

Real-Time Chat Application using MERN Stack

[Project Link]

MongoDB, ExpressJs, ReactJs, NodeJs, Socket.io

- Developed a real-time messaging application using the MERN stack**, incorporating MongoDB, Express.js, React, and Node.js for a comprehensive full-stack solution.
- Enhanced user interface and experience** with TailwindCSS and DaisyUI, ensuring a modern, responsive, and visually appealing frontend.
- Implemented secure authentication and authorization** using JSON Web Tokens (JWT), providing robust user security and data protection.
- Facilitated real-time communication** and online user status management with Socket.io and React Context, delivering a seamless and interactive user experience.

Github Link : https://github.com/Amisha-028/Chat_App

Interabot: GeminiAI Clone

[Project Link]

ReactJS, Gemini API, and Tailwind CSS

- Developed a responsive Gemini AI clone**, leveraging advanced machine learning techniques to create a large language model capable of generating diverse text formats and translations.
- Implemented various responsive creative text generation capabilities**, including poems, code, scripts, emails, and letters, showcasing the versatility of the AI model.
- Engineered a responsive AI model** to provide informative and accurate answers to user queries, enhancing user engagement and satisfaction.

Github Link : <https://github.com/Amisha-028/InteraBot>

SKILLS

- Languages:** C, C++, JAVA, MySQL
- Web Development:** HTML, CSS, Javascript, ReactJs, NodeJs, ExpressJs, MongoDB
- Concepts:** Data Structures and Algorithms, OOPS
- Tools:** Git, GitHub
- Soft Skills:** Communication, Leadership, Event Management, Writing, Time Management

ACHIEVEMENTS

- Qualified for Round 2 in **Google Girl Hackathon**, 2023 and was amongst the top 2.5 percent.
- Rated 1474 on LeetCode and hold a Pupil rating of 1218 on CodeForces.
- Solved over 1000+ programming problems across Leetcode, GeeksforGeeks, Codeforces.

POSITION OF RESPONSIBILITY

- Official Internshala Student Partner of National Institute Of Technology, Silchar.
- Organized the Yearbook Cover Design contest sponsored by YEARLI under the Computer Science Society at NIT Silchar.
- Organized the Polaroid Event under the Computer Science Society at NIT Silchar.

OTHER INTERESTS/EXTRACURRICULAR ACTIVITIES

- Chess
- Painting / Sketching