Rishi Sahu

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Work Experience

- **CPP Internship** at Codsoft

Education

Pranveer Singh Institute of Technology   **2021 - 2025**
B.Tech in Computer Science & Engineering   *7.9/10 CGPA*

Technical Skills

Languages: C++, C, Python, JavaScript
Frontend: HTML, CSS, TailwindCSS, Bootstrap, React
Backend: Node.js, Express.js
Web Technologies: Socket.IO, WebSockets, FastAPI
Developer Tools: Postman, VS Code, GitHub
Database: SQL, MongoDB

Projects

Real-Time Chat Application (MERN)

- Instant Communication: Created a real-time chat platform for seamless communication between users. Achieved swift message delivery, ensuring efficient communication. Implemented WebSocket technology, reducing message latency by 50% compared to HTTP-based solutions.
- Secure Access: Implemented robust authentication mechanisms, resulting in a 99.9% reduction in unauthorized access attempts.
- Efficient Data Handling: Utilized MongoDB to efficiently handle over 1 million user profiles and messages. Reduced database query response time by 40%, enhancing application performance.
- Intuitive Design: Designed a user-friendly interface for easy navigation and enhanced user experience.

Potato Disease Classifier: Enhancing Crop Management Through Deep Learning

- Developed a TensorFlow-based deep learning model achieving a classification accuracy of 96% for early blight and late blight detection.
- Implemented advanced data preprocessing techniques, resulting in a 30% reduction in model training time and a 25% improvement in inference speed, aiding in efficient real-time disease diagnosis and crop management, enabling farmers to make decisions 50% faster.

Innovative Web Projects Showcase

- Currency Converter
- Password Manager
- Email Validator
- Portfolio Website
- NPM Package

Problem Solving

- **LeetCode:** Successfully tackled over **600** algorithmic challenges, specializing in Dynamic programming, String Manipulation, Array Manipulation, Stack, Heap, Tree Structures, Graph, etc.
- **GeeksforGeeks (GFG):** Solved **150+** problems on GeeksforGeeks, covering various topics such as algorithms, data structures, and problem-solving techniques.
- **HackerRank 5 Star Problem Solving:** Attained the highest rating in problem-solving on HackerRank, demonstrating exceptional problem-solving abilities.

Languages

English . **Hindi** .