

# Dinesh Kumar Rana

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## TECHNICAL SKILLS

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Java, JavaScript, HTML, CSS, React.js, Tailwind, Node.js, Express.js, WebSockets, RESTful APIs, MongoDB, MySQL, Git, GitHub, Visual Studio Code, Python.

## PROJECTS

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### **ChatConnect** | MERN Stack, Socket.IO, React, Tailwind CSS, Node.js, Express.js, MongoDB

- Created a real-time chat application using the MERN stack and Socket.IO for seamless communication.
- Implemented private and group messaging features with real-time updates.
- Added user authentication to ensure secure and authorized interactions.
- Designed a responsive and user-friendly interface with React and Tailwind CSS.
- Optimized backend performance using Node.js, Express.js, and MongoDB for efficient data handling.

### **Devin Website Clone** | React, Tailwind CSS

- Built a frontend clone of the Devin website using React and Tailwind CSS.
- Developed a pixel-perfect UI to ensure a smooth and engaging user experience.
- Implemented state management with React for efficient rendering and interaction handling.
- Focused on scalability and maintainability in the project's structure and component design.

### **Movie Recommender System** | Python, Machine Learning, Collaborative Filtering, Content-Based Filtering

- Developed a machine learning-based movie recommender system utilizing collaborative and content-based filtering techniques.
- Implemented user preference analysis to provide personalized movie suggestions.
- Calculated movie similarity metrics to enhance recommendation accuracy.
- Structured the project with modular code for easy maintenance and scalability.
- Ensured compatibility with Python environments by specifying dependencies in a requirements.txt file.

### **Portfolio Website** | React, CSS, JavaScript

- Designed and developed a personal portfolio website to showcase projects, skills, and experience.
- Built with React for a dynamic and interactive user interface.
- Styled using CSS for a modern and responsive layout across devices.
- Integrated smooth navigation, animations, and interactive components for enhanced user experience.
- Deployed the website for public access, optimizing performance and accessibility.

## ACHIEVEMENTS

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### **Immersion – College Coding Contest**

- Demonstrated problem-solving and algorithmic skills by clearing multiple rounds of the contest.
- Collaborated with peers to solve coding challenges under time constraints.
- Enhanced proficiency in data structures and optimization techniques through competitive tasks.

## EDUCATION

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### **VIT Bhopal University**

*Bachelor of Technology in Computer Science and Engineering*

Bhopal, MP

*Nov 2022 – Present*

### **GGPS (CBSE)**

*Senior Secondary (12<sup>th</sup>)*

Bokaro, Jharkhand

*July 2021*

### **St. Clare's (ICSE)**

*High School (10<sup>th</sup>)*

Koderma, Jharkhand

*April 2019*