Dinesh Kumar Rana

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TECHNICAL SKILLS

Java, Spring Boot, JavaScript, HTML, CSS, React.js, Tailwind, Node.js, Express.js, WebSockets, RESTful APIs, MongoDB, MySQL, Git, GitHub, Visual Studio Code, Python, Pandas, NumPy, Scikit-learn.

PROJECTS

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.

BookStore App | React, Node.js, Express, MongoDB
- Developed a full-stack e-commerce web application for buying and selling books.
- Built a RESTful API with Node.js and Express.js for backend operations.
- Integrated MongoDB for database management and user authentication.
- Designed a responsive frontend with React and Tailwind CSS.
- Implemented JWT authentication for secure user login and session handling.

ACHIEVEMENTS

Immersion – College Coding Contest Cleared | Selected for Final Round
- 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

VIT Bhopal University	Bhopal, MP
Bachelor of Technology in Computer Science and Engineering	*Nov 2022 – Present*
GGPS (CBSE)	Bokaro, Jharkhand
Senior Secondary (12th)	*July 2021*
St. Clare's (ICSE)	Koderma, Jharkhand
High School (10th)	*April 2019*