

# Chandan Kumar Verma

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## EDUCATION

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### VIT Bhopal University

Bachelor of Technology in Computer Science and Engineering – CGPA: 7.80

Bhopal, MP

Nov 2022 – Present

## TECHNICAL SKILLS

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**Languages:** C, C++, Python, JavaScript, Typescript

**Web:** HTML, CSS, ReactJS, Node.js, Express, TailwindCSS

**Database:** MySQL, MongoDB

**Tools/Platforms:** Git, GitHub, Excel, AWS(EC2,S3)

**Libraries:** Pandas, NumPy, Matplotlib

**CS Fundamentals:** Data Structures and Algorithms

## PROJECTS

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### AI-Powered Blog Application | MERN Stack, Google Gemini, ImageKit [LINK]

- Built a full-stack blog platform using MongoDB, Express.js, React, and Node.js, enabling users to create, edit, and view AI-generated blog posts with real-time CRUD operations.
- Integrated Google Gemini API for automated content generation and ImageKit API for optimized media delivery, reducing image load time by 40% and content creation time by 90%.
- Anchored the application with secure JWT/OAuth-based authentication, supporting 100+ concurrent users and maintaining 95% uptime with responsive UI and efficient backend APIs.

### RaiseUp-A Front-End Charitable Donation Platform | React.js, Tailwind CSS, Node.js, Express.js [LINK]

- Developed a fully responsive and interactive donation interface using React and Tailwind CSS, focusing on a seamless and intuitive user journey.
- Built reusable and stateful components for handling form inputs and donation amounts, ensuring a clean and maintainable codebase.
- Ensured full responsiveness across mobile, tablet, and desktop screens using CSS Flexbox and Grid.

### Expense Tracker Web App | MongoDB, Express.js, React.js, Node.js [LINK]

- Built and positioned a full-stack MERN app on Render, supporting 500+ daily transactions with response time <200ms.
- Secured user data with JWT-based authentication and encrypted APIs; implemented 100% CRUD feature coverage.
- Integrated React Hooks and modular architecture to improve performance by 35% on mobile devices.

### ASL to Text Converter | Python, Tensorflow, openCV, Tkinter, Numpy [LINK]

- Developed a real-time ASL-to-Text Converter using a custom dataset and CNN model to recognize A–Z gestures with high accuracy.
- Integrated OpenCV, Pillow, and Tkinter for live gesture detection, text display, and user-friendly GUI.
- Enhanced reliability with spell-checking and preprocessing techniques for improved recognition accuracy.

## CERTIFICATIONS

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### Generative AI Career Essentials – IBM Career Education

Jan 2025 – Apr 2025

### Full Stack Developer – MERN Stack – SmartBridge x MongoDB

Jan 2025 – Apr 2025

## EXTRA-CURRICULAR ACTIVITIES

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- **Event Management Team Member:** Coordinated several successful events with gathering over 3000 participants at VIT Bhopal University.
- **Volunteer At ADVITYA Fest:** Facilitated communication and coordination between 10+ event committees for ADVITYA Fest, ensuring alignment on objectives and seamless execution of diverse activities, which was well-received by attendees.