VIKASH KUMAR SINGH

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EDUCATION

VIT BHOPAL UNIVERSITY   **2022-26**
Bachelor of Technology in Computer Science (Cyber Security & Digital Forensics)
CGPA: 8.32
XII (CBSE) | B.L. Indo Anglian Public School   **2021**
74.2%
X (CBSE) | D.A.V. Public School   **2019**
81.6%

ACADEMIC PROJECTS

TrainTogether - Fitness Web Application *(React, JavaScript, HTML, Material UI, API)* **[Live]**
- Built a responsive fitness web application allowing users to search exercises by muscle group, equipment, or body part, with detailed GIF animations and step-by-step guides.
- Integrated RapidAPI ExerciseDB and YouTube Search API to fetch 1,300+ exercises and related workout videos dynamically.
- Implemented React Router v6 for seamless navigation across Home, Exercise Details, and Recommendations pages.
- Used Material UI for a modern, responsive interface and custom hooks for clean data fetching.
- Added similar exercises and target muscle suggestions to enhance the workout discovery experience.

ingreSnap - Smart Ingredient Scanner *(React, HTML, Tailwind CSS, Database, API)* **[Live]**
- Contributed to the development of *ingreSnap*, a user-centric solution that extracts and analyzes ingredient lists from packaged food labels using OCR.
- Enabled automatic detection of allergens, additives, and key nutritional components, helping users make informed dietary choices.
- Integrated OCR technology to convert food label images into structured, searchable ingredient data.
- Focused on accessibility, accuracy, and performance, optimizing UI/UX for seamless user interaction.
- Designed with health-conscious users, ensuring clarity in identifying potentially harmful or unwanted ingredients.

Realtime-Chat-Application *(Go, TCP Sockets, Goroutines, Channels, Mutex)* **[GitHub]**
- Built concurrent TCP server handling 100+ simultaneous connections using goroutines.
- Implemented thread-safe message broadcasting using mutex synchronization.
- Designed hub pattern for efficient client management and real-time distribution.
- Developed a bidirectional client using channels for asynchronous operations.

POSITION OF RESPONSIBILITY / ACHIEVEMENTS

E-Cell (Entrepreneurial Cell) | VIT Bhopal University
Event Management
Worked as a volunteer for Aarohan, a business model and competition

Hackathon Finalist – NeoCodeathon (NeoPAT Monthly Hackathon) | VIT University (all 4 campuses), [June-2025]
Selected as a finalist in a monthly coding competition open to all four VIT campuses.

SKILLS

Programming Skills: C++, Java, Python, SQL
Web Technologies: HTML, CSS, JavaScript, React, Go
Tools & Platforms: Git, GitHub, VS Code, RapidAPI
Relevant Coursework: Object-Oriented Programming (OOP), Operating Systems, Database Management System, Data Structures and Algorithms