

Rajnish Kumar Singh

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EDUCATION

VIT Bhopal University

B.Tech in Computer Science and Engineering (*Cloud Computing & Automation*)

Bhopal, India

Jun 2022 – Aug 2026

- CGPA: 8.21/10

EXPERIENCE

Freelance Web Development

2025 – Present

- Developed and launched 5 responsive web platforms using React, Next.js, Tailwind CSS, integrating 10+ APIs such as News API and Stripe for secure and interactive user experiences.
- Constructed a real-time AI Voice Interview System using Next.js, Firebase, Vapi AI Agent, Google Gemini AI, enabling automated feedback and session tracking for 50+ interviews.

Hackathon Participant – Tutedude Hackathon

2025

- Partnered in a team of 5 to design a MERN-stack e-commerce platform for small businesses, developing frontend with React, HTML, CSS and backend with Node.js, MongoDB APIs.
- Introduced vendor and product management modules, optimizing data entry and inventory tracking for 50+ products, improving workflow efficiency by 30%.

PROJECTS

AI-Powered Fitness Coach App

Sep 2025

- Engineered an AI-driven fitness assistant using Next.js, Node.js, Tailwind CSS, shadcn/ui, Framer Motion, generating personalized workout and diet plans with LLMs, increasing accuracy by 40%.
- Integrated OpenAI and Gemini APIs to automate plan recommendations and realistic exercise/meal visuals, improving engagement by 35%.
- Embedded ElevenLabs TTS, PDF exporting, and Supabase/localStorage persistence with theme toggling, enhancing accessibility for 200+ users.
- Delivered a fast, animated interface achieving a 95% Lighthouse score across 15+ responsive screens, ensuring smooth performance.

Quickbasket – Grocery Delivery App

Jan 2025

- Designed a grocery e-commerce system using the MERN stack, including secure authentication, admin panel, and catalog for 50+ items.
- Refined checkout and cart logic, reducing transactional errors by 25% and enhancing operational throughput.
- Structured a MongoDB-powered backend to handle inventory and orders efficiently, supporting 200+ transactions with reliable data synchronization.

Brain Tumor Detection (CNN)

May 2023

- Implemented Convolutional Neural Network using PyTorch & TensorFlow for MRI-based brain tumor classification, achieving high accuracy on 3,000+ images.
- Applied data augmentation and regularization techniques to minimize overfitting by 20%.
- Built a browser-compatible inference tool with Flask, reducing prediction latency to under 2 seconds per scan.

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, HTML, CSS

Frontend: React, Next.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, REST APIs

Databases: MongoDB, PostgreSQL, SQL

Tools & Cloud: Git, Docker, Postman, AWS, VS Code, Vercel, Netlify

Certifications: Oracle Cloud Infrastructure 2025 Architect Associate

Courses: 100 Days of Code: Python Pro Bootcamp (Udemy); Full Stack Web Development Bootcamp (Udemy, Apr 2025)