

Rajnish Kumar Singh

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EDUCATION

VIT Bhopal University

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

- CGPA: 8.21/10

Bhopal, India

Jun 2022 – Aug 2026

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)