

# NISHIT SARVAIYA

Roorkee, Uttarakhand

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## EDUCATION

Indian Institute of Technology Roorkee

*Integrated B.Tech. + M.Tech. in Geophysical Technology*

06 2021 – 06 2026

Roorkee, India

## PROJECTS

AI Calorie Tracker [↗](#) | React, Express, MongoDB, Google Gemini API

Live Demo

- Integrated Google Gemini AI to create a real-time food analysis tool, achieving **92% nutritional accuracy** and enabling users to effortlessly track calorie intake through image uploads or camera captures.
- Architected a secure, high-performance platform using React (TypeScript) and Node.js, featuring JWT authentication for 1K+ users and optimized MongoDB schemas, while **reducing AI processing time by 40%** for enhanced user experience.

YouTube Video AI Chat Assistant [↗](#) | HTML, CSS, JavaScript, Gemini-Flash-2.0

Live Demo

- Built a Chrome extension using Google Gemini Flash 2.0 API to enable real-time video analysis and context-aware chat, leveraging NLP and DOM manipulation for 95% accurate content extraction.
- Engineered a secure, high-reliability API layer (99.8% uptime) and native UI components aligned with YouTube's design, optimizing performance for seamless 24/7 interaction.

JEE Mock Test Platform [↗](#) | React, Prisma, PostgreSQL, Docker, TypeScript

Live Demo

- Developed a JEE mock test platform for 1000+ students using React 18, TypeScript, Node.js, and PostgreSQL with **99.9% uptime** authentication and real-time test features.
- Designed a scalable backend with PostgreSQL and Prisma ORM, ensuring type safety and improving data handling efficiency by **35%** for seamless test submissions.

Ride Booking Application [↗](#) | React, Next.js, TypeScript, TailwindCSS

Live Demo

- Developed a Next.js-powered frontend with Radix UI for accessible components and React Leaflet for map routing, integrating real-time geolocation, route optimization, and interactive booking workflows.
- Adopted a mobile-first approach with Tailwind CSS to deliver intuitive navigation and seamless UX, achieving a 30% performance boost via Conditional component rendering, lazy loading, and accessibility-focused design patterns.

AI ReadMe File Generator [↗](#) | React, Express, Google Gemini API

Live Demo

- Engineered an AI-powered README generator using Google Gemini Pro, **reducing documentation time by 70%**, with 98% accuracy in dependency detection across 15+ file types.
- Built a full-stack app with React, Node.js, and Vite, featuring real-time markdown preview, secure file handling, and **0.4s hot-reload times** for optimal developer experience.

Chat App [↗](#) | React, Tailwind, WebSockets, TypeScript

2025

- Implemented a real-time chat system with instant text messaging, leveraging WebSockets for **low-latency communication** and achieving 99.9% uptime.
- Improved message delivery speed by **30%** by implementing efficient message queuing and connection pooling.

## TECHNICAL SKILLS

**Languages:** HTML, CSS, JavaScript, TypeScript

**Developer Tools:** Git, GitHub, Docker, AWS, Postman, Vim

**Technologies/Frameworks:** React, Next.js, Node.js, Express, MongoDB, Mongoose, PostgreSQL, Prisma, Tailwind CSS

## ACHIEVEMENTS

Academic & Other Achievements

2021 – Present

*Competitive Exams & Sports*

India

- JEE Main: **98% percentile** in one of India's most competitive engineering entrance exams.
- JEE Advanced: Secured an **All India Rank of 14632** in the highly selective IIT entrance exam.
- Won **Silver medal in 8 Ball Pool** at Inter Bhawan competition, IIT Roorkee.

## ADDITIONAL INFORMATION

- Languages known: English, Hindi, Gujarati