

Hritika Das

FULL-STACK DEVELOPER | ASPIRING AI & MACHINE LEARNING ENGINEER

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SUMMARY

Aspiring Software Engineer with technical proficiency in Full-Stack (Next.js, Node.js), **Gen AI, and Machine Learning**. Leverages a strong mathematical background and DSA to build projects ranging from fintech platforms to 3D simulations. Experienced in deploying scalable solutions via **Vercel/Render** using **Git/GitHub** for version control. Dedicated learner eager to apply analytical thinking and modern AI frameworks to a collaborative team.

PROJECT EXPERIENCE

SignConnect

Dec 2024 – Present

- Engineered a Real-time Sign Language Detection System using **MediaPipe**, **TensorFlow.js**, and **React.js**; achieved **95%+ accuracy** for ASL/BSL/ISL through buffering algorithms and visual landmark overlays.
- Architected **WebRTC-based** Video Conferencing via **Socket.io** and SimplePeer, enabling multi-user calls and screen sharing with <100ms latency.
- Developed Production-Ready Backend API using Node.js, Express, and Prisma ORM, featuring **JWT/bcrypt** authentication, Helmet.js security, and RESTful endpoints.
- Implemented Accessibility-First UI with **Tailwind CSS** and **Framer Motion**, ensuring WCAG compliance through high-contrast modes and ARIA labels.
- Deployed **Scalable Infrastructure** using Docker containerization across Vercel and AWS, integrating MongoDB Atlas and CI/CD pipelines.
- Tech Stack:** JavaScript/TypeScript, React, Node.js, Python (TensorFlow), WebRTC, Prisma, MongoDB, Docker.

FinGrow | Full-Stack Developer

Nov 2024 – Present

- Developed an AI-Powered Micro-Investment Platform using **Next.js 14** (App Router) and PostgreSQL; featured 6 specialized AI engines for spending analysis and liquidity forecasting.
- Engineered Smart Investment Logic including automated round-up rules (₹42→₹50) and risk-based bundle matching via a 5-question assessment system.
- Architected a Type-Safe Backend with **Prisma ORM**, implementing JWT authentication with HTTP-only cookies and secure password hashing using bcrypt.
- Optimized Performance & Reliability by achieving a 48% faster load time (1.8s) and maintaining 116+ passing tests using **Jest and React Testing Library**.
- Built Interactive Data Visualizations using Recharts and GSAP, enabling users to run compound growth simulations and scenario comparisons.
- Deployed Production Infrastructure on **Vercel** with a **Neon PostgreSQL database**, integrated GitHub Actions for CI/CD, and Resend for transactional emails.
- Tech Stack:** Next.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma, Jest, AI/ML Logic, GSAP, Recharts.

SKILLS

Languages: JavaScript, TypeScript, Java, Python

Front-end: React.js, Tailwind, Next.js, React Native

Back-end: Node.js, Express.js, Django, Flask, Fast API

Databases: MongoDB, MySQL, Firebase, PostgreSQL

AI & ML: GenAI (OpenAI APIs, LangChain), Linear Algebra, Calculus

Cloud: AWS, Firebase, Heroku, Docker

Web3: Truffle, Hardhat, Ganache, NFT

UX/UI Design: Figma, Framer

Others: Git, GitHub, Agile, Debugging, Testing, Coding, Data Structures and Algorithms(DSA)

EDUCATION

Lokamanya Tilak College Of Engineering (2023 – 2027)

Computer Engineering - CGPA: 7.50

Royal Junior College (2021 – 2023)
Guardian School-ICSE (2020)

CERTIFICATIONS

Eduate – AI/ML

Gemini Hac2Skill Program

IBM – Agentic AI Program

Additional **certifications in AI/ML**, cloud technologies, and modern web frameworks.

HACKATHONS

Participated in **SIH** twice and more hackathons and developed scalable, real-world solutions for challenges, leveraging **Full-Stack and AI/ML frameworks** under high-pressure environments.

LANGUAGES

English

Hindi (Native)