Harsha Chiruvolu

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Summary

Computer Science student at IIIT Kottayam with practical experience in MERN stack and machine learning. Developed and deployed scalable web apps with authentication, media sharing, and real-time communication features.

Education

Indian Institute of Information Technology, Kottayam   2023 – 2027
B.Tech in Computer Science and Engineering
CGPA: 8.60

Sri Chaitanya Collage   2021-2023
Class XII
Grade: 97.9%

Skills

Languages & Core: C++, Python, JavaScript (ES6+), OOP, DSA, MVC Architecture
Web Development: React 19, Node.js, Express.js, Zustand, Tailwind CSS, REST APIs, React Router
Backend & DevOps: MongoDB, MySQL, JWT Auth, bcrypt.js, Cloudinary, Vercel, Render
Machine Learning: NumPy, Pandas, scikit-learn, Regression, Classification, Neural Networks (Coursera)
Tools & Platforms: Git, GitHub, VS Code, Postman, Chrome DevTools

Projects

LiveLine – Real-Time Chat App | Live Demo ☑ | GitHub Repo ☑   *React.js, Node.js, Express.js, MongoDB, Socket.IO, Tailwind CSS, Zustand* A real-time chat application enabling seamless conversations with modern UX features.

○ Designed and optimized a real-time messaging pipeline using Socket.IO, reducing message latency to under **150ms** and ensuring seamless experience for concurrent users.

○ Implemented JWT-based user authentication and secure password hashing using bcryptjs **(10+ salt rounds)**

○ Enabled media sharing with Cloudinary and protected **5+ routes** using React Router v7

○ Integrated Zustand for global state management and toast notifications for responsive UI

○ Built a modular, responsive interface with Tailwind CSS and deployed locally with Git/GitHub version control

Trendora – E-commerce Web App | Live Demo ☑ | GitHub Repo ☑   *React, Node.js, Express.js, MongoDB, Zustand, Tailwind CSS* A role-based e-commerce platform with full CRUD capabilities and admin panel.

○ Developed a responsive frontend with cart functionality, user authentication, and toast alerts using Zustand and Tailwind CSS.

○ Created a role-based admin panel for managing products, users, and orders with secure form validation

○ Built scalable RESTful APIs using Express.js and MongoDB; integrated Cloudinary for efficient media handling

○ Improved backend performance by 15% through optimized queries and structured middleware

○ Deployed frontend, backend, and admin panel on Vercel using environment-secured CI/CD pipelines

Achievements and Certifications

- **Neural Networks and Deep Learning**, Coursera – Verify Certificate ☑, 2025
- **Supervised Machine Learning: Regression and Classification**, Coursera – Verify Certificate ☑, 2025
- Scored **97.3** percentile in JEE Mains (Top 5% among 1M+ candidates)