

# MANVENDRA RAI

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## PROFESSIONAL SUMMARY

Full-stack developer skilled in MERN, Java backend, and ML systems with 100+ DSA problems solved and experience building scalable, production-ready applications.

## SKILLS

**Languages:** Java, JavaScript, TypeScript, Python, SQL, HTML5  
**Frontend:** React.js, Next.js, Tailwind CSS  
**Backend:** Node.js, Express.js, REST APIs, WebSockets, JWT Auth  
**Databases:** MongoDB, MySQL  
**Cloud/DevOps:** AWS (S3, EC2, Lambda), Docker, CI/CD  
**Tools:** Git, GitHub, Postman, Vercel, Jira

## EDUCATION

<b>Vellore Institute of Technology</b> <i>B.Tech, Computer Science and Engineering (Gaming Technology)</i> <i>Relevant Coursework: DSA, DBMS, OS, CN, AI</i>	<b>Oct 2022 – Oct 2026</b> <i>GPA: 8.44/10</i>
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## PROJECTS

<b>JarvisGPT ChatBot — MERN + GenAI</b> <a href="#">Link</a>	May 2025
<ul style="list-style-type: none"><li>Developed a GenAI chatbot with JWT authentication, session persistence, and modular API architecture.</li><li>Reduced average response latency to <b>200ms</b> using batching and lightweight caching.</li><li>Integrated Razorpay for usage billing; deployed via CI/CD on Vercel and Render.</li><li>Modular backend supports easy extension for new tools/models.</li></ul>	
<b>Credit Card Fraud Detection — Machine Learning</b>	Jan 2025
<ul style="list-style-type: none"><li>Built ML pipeline using Random Forest + Logistic Regression with SMOTE to handle class imbalance.</li><li>Achieved <b>93% F1-score</b> with tuned thresholds and 5-fold cross-validation.</li><li>Performed feature-importance and evaluation visualizations for interpretability.</li></ul>	
<b>Real-Time Chat Application — MERN + WebSockets</b>	Sep 2024
<ul style="list-style-type: none"><li>Built real-time chat system using WebSockets, JWT auth, and optimized MongoDB schemas.</li><li>Load-tested with 30+ users; maintained <b>sub-220ms</b> message delivery time.</li><li>Added rate-limiting and token refresh logic to improve reliability.</li></ul>	
<b>Online Bookstore — Java (JSP/Servlets)</b>	Mar 2024
<ul style="list-style-type: none"><li>Developed MVC-based bookstore with auth, cart management, and admin inventory tools.</li><li>Optimized JDBC queries to reach <b>1.3s</b> response time under moderate load.</li><li>Improved consistency using validation and structured error handling.</li></ul>	

## TECHNICAL EXPERIENCE

<b>Android Club — Core Tech Member</b>	2023 – Present
<ul style="list-style-type: none"><li>Integrated CI/CD automation improving deployment speed by 40%.</li><li>Supported technical infrastructure used by 2000+ students during events.</li></ul>	
<b>Techno Club — Tech Member</b>	2023 – Present
<ul style="list-style-type: none"><li>Built internal REST APIs and full-stack modules used by 500+ students.</li><li>Automated contest workflows, eliminating duplicate submissions.</li></ul>	

## CERTIFICATIONS

<b>MERN Full Stack Developer — Ethnus</b>	2025
<b>Cybersecurity Analyst — IBM</b>	2025

## ACHIEVEMENTS

- Published a peer-reviewed research paper in IEEE Xplore on the topic of AI-Driven Multi-Disease Prediction Using Deep Learning and Machine Learning Model (2025) [Link](#)