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

Vellore Institute of Technology, Bhopal   **Oct 2022 – Oct 2026**
B.Tech, Computer Science and Engineering (Gaming Technology)   *GPA: 8.44/10*
Relevant Coursework: DSA, DBMS, OS, CN, AI

PROJECTS

JarvisGPT ChatBot — MERN + GenAI Link   May 2025
- Developed a GenAI chatbot with JWT authentication, session persistence, and modular API architecture.
- Reduced average response latency to **200ms** using batching and lightweight caching.
- Integrated Razorpay for usage billing; deployed via CI/CD on Vercel and Render.
- Modular backend supports easy extension for new tools/models.

Credit Card Fraud Detection — Machine Learning   Jan 2025
- Built ML pipeline using Random Forest + Logistic Regression with SMOTE to handle class imbalance.
- Achieved **93% F1-score** with tuned thresholds and 5-fold cross-validation.
- Performed feature-importance and evaluation visualizations for interpretability.

Real-Time Chat Application — MERN + WebSockets   Sep 2024
- Built real-time chat system using WebSockets, JWT auth, and optimized MongoDB schemas.
- Load-tested with 30+ users; maintained **sub-220ms** message delivery time.
- Added rate-limiting and token refresh logic to improve reliability.

Online Bookstore — Java (JSP/Servlets)   Mar 2024
- Developed MVC-based bookstore with auth, cart management, and admin inventory tools.
- Optimized JDBC queries to reach **1.3s** response time under moderate load.
- Improved consistency using validation and structured error handling.

TECHNICALEXPERIENCE

Android Club — Core Tech Member   2023 – Present
- Integrated CI/CD automation improving deployment speed by 40%.
- Supported technical infrastructure used by 2000+ students during events.

Techno Club — Tech Member   2023 – Present
- Built internal REST APIs and full-stack modules used by 500+ students.
- Automated contest workflows, eliminating duplicate submissions.

CERTIFICATIONS

MERN Full Stack Developer — Ethnus   2025
Cybersecurity Analyst — IBM   2025

ACHIEVEMENTS

- Published a peer-reviewed research paper in IEEE Xplore (2025): Link
- Solved 100+ DSA problems across institute platform + LeetCode (arrays, DP, graphs, trees).