

RITISH KUMAR SINGH

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LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

A passionate Software Developer skilled in full-stack development with strong expertise in MERN stack, machine learning workflows, and building AI-powered platforms. Proficient in designing scalable web applications, integrating secure payments, deploying responsive UI, and solving complex engineering problems through analytical and structured thinking.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React.js, Redux, Express.js, Node.js, Mongoose, TailwindCSS, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
- **Databases:** MongoDB, MySQL
- **Tools:** VS Code, Git, GitHub, Vercel, Render
- **Core Skills:** Web Development, Software Development, Data Science, Data Analytics

WORK EXPERIENCE

Infosys Ltd | Systems Engineer Trainee

November 2025 – Present

- Undergoing foundational and role-based training covering full-stack development and software engineering concepts.
- Working on hands-on modules focusing on scalable backend development, data structures, and real-world project implementation.
- Collaborating with peers through agile team learning, debugging challenges, and industry-oriented assessments.

PROJECTS

- **QuickCart | E-Commerce Platform | MERN Stack**
Engineered a scalable e-commerce application supporting fast product browsing, cart management, and secure Stripe-based checkout. Designed responsive UI for seamless shopping experience.
- **AI Studio | Multi-Tool AI Platform | MERN Stack**
Built a unified AI platform integrating AI Image Generator, AI Content Generator, AI Travel Planner, AI Interview Mocker, and AI Form Builder. Developed strong backend architecture and implemented secure Stripe-based payments.
- **House Price Prediction System | Python**
Designed end-to-end ML pipeline for preprocessing, training, and predicting property prices using Random Forest regression. Automated categorical encoding and missing-value handling with Joblib-based model deployment.
- **RAG-Based AI Teaching Assistant | Python**
Developed a RAG pipeline with document chunking, semantic search, FAISS/Chroma vector store, and LLM response generation for accurate academic query answers.

EDUCATION

- **B.Tech in Information Technology** *CGPA: 9.05 | 2021–2025*
Dr. Akhilesh Das Gupta Institute of Technology & Management
Guru Gobind Singh Indraprastha University, Delhi
- **Class XII (CBSE)** *Percentage: 87.40 | 2020*
Kendriya Vidyalaya No.1, Air Force Station Pathankot, Punjab
- **Class X (CBSE)** *Percentage: 90.40 | 2018*
Kendriya Vidyalaya No.3, Air Force Station Nal Bikaner, Rajasthan

CERTIFICATIONS

- Programming and OOP using Java | Infosys
- Data Structures and Algorithms using Java | Infosys
- MERN Stack Development | CodeHelp
- Node.js | IBM
- Data Science | Code With Harry

ACHIEVEMENTS

- National Science Olympiad | Gold Medalist
- International Mathematics Olympiad | Silver Medalist
- National Cyber Olympiad | Silver Medalist
- Awarded 80,000 Scholarship from Indian Air Force Benevolent Association

PERSONAL DETAILS

- **Date of Birth:** 13 March 2003
- **Languages Known:** English, Hindi