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

- **Address:** Pinto Park, Air Force Station Palam, Delhi - 110010