

Ritu Raj

Full Stack Developer | AI & ML Student

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full Stack Developer and AI & ML student experienced in building and deploying full-stack and AI-powered applications using JavaScript, Node.js, Express.js, MongoDB, and Python. Interested in backend engineering, AI systems, and developing scalable real-world software.

TECHNICAL SKILLS

Languages:	JavaScript, Python, Java
Frontend:	HTML5, CSS3, Bootstrap, React
Backend:	Node.js, Express.js, REST APIs, Authentication, MVC Architecture, EJS
Database:	MongoDB, PostgreSQL
AI / ML:	Groq API (Llama 3.3), LangChain, Prompt Engineering, Model Integration
Tools:	Git, GitHub, VS Code, Vercel, Render

PROJECTS

Orbit AI – AI-Powered Assistant

[Link ↗](#)

Tech Stack: React, Node.js, Express.js, Python (FastAPI), MongoDB, Groq API (Llama 3.3), LangChain

- Architected a full-stack AI assistant leveraging Groq API (Llama 3.3) and LangChain orchestration to deliver real-time, context-aware conversational workflows.
- Implemented a dual-backend infrastructure with Node.js/Express handling core API routing and Python (FastAPI) managing AI operations and context processing.
- Integrated secure JWT-based authentication, MongoDB Atlas session persistence, and custom context handling to retain user memory across interaction sessions.

Stayora – Property Rental Web Application

[Link ↗](#)

Tech Stack: Node.js, Express.js, EJS, MongoDB, JavaScript

- Built and deployed a full-stack property rental platform with user authentication, signup/login functionality, and property listing management.
- Developed RESTful backend routes using Express.js for creating, viewing, updating, and deleting property listings.
- Integrated MongoDB and Mongoose for persistent data storage and deployed the production application on Railway.

Scientific Calculator – Web Application

[Link ↗](#)

Tech Stack: HTML, CSS, JavaScript

- Developed a responsive scientific calculator supporting arithmetic, trigonometric, factorial, permutation, and combination operations.
- Implemented JavaScript-based calculation logic for real-time expression processing and multi-step mathematical operations.
- Designed a responsive interface optimized for desktop and mobile devices and deployed it on Netlify.

EDUCATION

B.Sc. Artificial Intelligence & Machine Learning

Semester 3 | CGPA: 9.16/10

Chanakya Education Society's Indira College of Commerce & Science, Pune

CERTIFICATIONS

- Delta (Full Stack Web Development) – Apna College
- Python for Data Science and Machine Learning
- Artificial Intelligence Foundations: Machine Learning