

RAJNATH SINGH TOMAR

Passionate about MERN Stack & AI

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🌱 <https://staymania.onrender.com>

SUMMARY

- Detail-oriented and enthusiastic **B.Tech student** specializing in Information Technology with a robust foundation in full-stack web development and cloud technologies. Proficient in building and deploying scalable applications using Node.js, Express.js, and MongoDB.
- My practical experience includes developing real-world projects like the StayMania platform and an AI-enabled agricultural system, RAG pipeline showcasing a strong ability to solve complex problems and deliver effective solutions.

EDUCATION

Bachelor of Technology

Guru Ghasidas Vishwavidyalaya
📅 2023 -2027 📍 Chhattisgarh

Class 10th

JNV Etawah
📅 2019 📍 U.P

Class 12th

JNV Etawah
📅 2021 📍 U.P

PROJECTS

RAG Pipeline with LLaMA + Chroma

- Designed and implemented an end-to-end conversational AI system using **LLaMA 3.2-1B** as the language model for natural language understanding and generation.
- Integrated **all-mpnet-base-v2**, **ChromaDB** for dense text embeddings to enable semantic search and context retrieval.
- Developed a **FastAPI** backend to manage embedding pipelines, context retrieval, and LLM inference endpoints.

StayMania | Full-Stack Web Application

- Built and deployed a travel & stay booking platform with secure authentication
- Implemented **CRUD** operations, responsive UI, and cloud database MongoDB Atlas on **Render**) Integrated Cloudinary for image uploads and **Mapbox** for geolocation Optimized schemas via Mongoose for scalability

KEY ACHIEVEMENTS

- Reliance Foundation Scholar (Among India's top 5000 students)
- Hands-on experience with Google Cloud AI tools through **GDSC Gen AI Study Jams** (October 2023, May 2024)
- Selected as 18 out of 150 teams for **Hactivate (2025)**, a GeeksforGeeks hackathon at Anurag University, for demonstrated proficiency in database management and optimizing performance of an application.

TECHNICAL SKILLS

C/C	Python	HTML	CSS
JavaScript	MongoDB	Express.js	
React	Node.js	Docker	GitHub
Google Firebase	Matplotlib		
Numpy	Pandas		

Extracurricular Activity

- Volunteer in college event SIH (smart India hackathon 2024)
- Member, Management Team – IEEE R10 ACEI (All Congress on Entrepreneurship & Innovation)
 - Assisted in planning, coordination and execution of event activities for IEEE Region 10 ACEI.
 - Collaborated with team members to manage logistics, scheduling, and communication with participants.