

# Himanshu Lodha

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## SKILLS

**Frontend:** React, Next.js, JavaScript, TypeScript, Tailwind CSS

**Backend:** Python, FastAPI, Node.js, Express.js, NATS, Redis

**Databases:** PostgreSQL, MongoDB, ChromaDB, AstraDB, Cassandra

**AI & ML:** Machine Learning, Deep Learning, Hugging Face, LLM, RAG, Agents, CrewAI, Knowledge Graphs

**Cloud & DevOps:** AWS (EC2, S3), Azure Artifacts, Google Cloud, Vercel, GitHub Actions, Git, Docker, Postman

## EDUCATION

**BMS Institute of Technology and Management**

*Bachelor of Engineering, Computer Science*

Nov 2022 – Present

**CGPA: 9.21** (after 5th Semester)

**Sarala Birla Public School, Ranchi**

*CBSE, PCM*

Apr 2008 – Apr 2021

**XII: AISSCE 87.50% — X: AISSE 91.83%**

## EXPERIENCE

**Samey AI, Backend and AI Intern**

*Remote*

May 2025 – Present

- Collaborated with various technologies, including NATS and Redis, to support the redesign of the workflow orchestrator, which serves as the agentic core of the entire company.
- Established and optimized an internal Python package repository via Azure Artifacts, enabling reusable modules across 9+ microservices and reducing deployment time by 15%.

**Unisys Campus Connect, Research Intern**

*Bengaluru, India*

Nov 2024 – Apr 2025

- Proposed an automated pipeline to generate training datasets for proprietary Unisys languages.
- Researched and implemented LoRA fine-tuning to transfer knowledge of low-resource programming languages to large language models (LLMs).

## PROJECTS

**Holistic Meeting Insights: From Slides to Speech** [GitHub]

Jan 2025

- Developed an application using Next.js, FastAPI, and PostgreSQL, with a RAG pipeline for multimodal analysis.
- Used Whisper for transcription and a Vision-Language Model for interpreting slides; enabled LLM-based querying with more than 95% data retention.

**Interactive Book Reader with RAG** [GitHub]

Dec 2024

- Created an interactive reader with React, Tailwind CSS, and FastAPI for contextual Q&A via graph-based RAG pipeline; improved user immersion by 60%.
- Enhanced comprehension using dynamic summarization with Graph-RAG.

**Explore Ease** [GitHub]

Jul 2024

- Designed and deployed a full-stack travel-planning web app using Node.js, Express.js, and React, with an LLM chatbot suggesting points of interest.
- Dijkstra's Algorithm for optimal routing and Leaflet for interactive mapping; cut travel planning time by 50%.

## CERTIFICATIONS & VOLUNTEERING

**Vice-President & Technical Head at IIC-BMSIT**

Nov 2024 – Present

- Led a team of 40+ members to organize tech events and collaboratively build, and deploy the club's main website and multiple event-specific microsites, all of which are now live and supporting ongoing and future initiatives.

**Machine Learning & Deep Learning Specializations(Coursera)**

Aug – Sept 2024

- By Andrew Ng, Stanford University & DeepLearning.AI

**Volunteering**

May – Aug 2024

- Created a lake and water body database with Yuvaka Sangha & NSS Karnataka for conservation efforts.
- Built and donated a live website for a Rajanukunte government school, boosting its digital presence and outreach.