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   Nov 2022 – Present
Bachelor of Engineering, Computer Science   ***CGPA: 9.21*** *(after 5th Semester)*

Sarala Birla Public School, Ranchi   Apr 2008 – Apr 2021
CBSE, PCM   *XII: AISSCE 87.50% — X: AISSE 91.83%*

EXPERIENCE

Samey AI, Backend and AI Intern   May 2025 – Present
Remote
- 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   Nov 2024 – Apr 2025
Bengaluru, India
- 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.