

Himanshu Lodha

Computer Science Engineer

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Passionate Computer Science student with a strong foundation in debugging and enhancing code. Dedicated to contributing positively to society and eager to apply my skills in a professional setting. Seeking opportunities to solve complex problems and improve systems.

SKILLS

C/C++ | Data Structures & Algorithms | HTML | CSS | JavaScript | Typescript | Tailwind | React | Next.js | PostgreSQL
MongoDB | Python | FastAPI | Machine Learning | Deep Learning | LLM | RAG | Knowledge Graphs

EDUCATION

Bachelor of Engineering - BE, Computer Science | BMS Institute of Technology and Management

Nov 2022 - Pursuing

Current CGPA 9.31 (after 4th Semester)

CBSE, PCM | Sarala Birla Public School, Ranchi

Apr 2008 - Apr 2021

XII AISSCE with 87.50% | X AISSE with 91.83%

Experience

Research Intern at Unisys

Nov 2024 - Present

- Developing training datasets for proprietary languages to train Code Llama 3.2.
- Researching methods for languages like ALGOL and COBOL to create a Co-pilot for Unisys-specific languages, with a focus on publishing a dataset preparation paper and using AI models like Llama.

PROJECTS

Holistic Meeting Insights: From Slides to Speech

Jan 2025

- Developed a full-stack app with a RAG pipeline.
- Features include transcription, LLM for answering queries based on meeting, and analysis of visual data such as presentations and diagrams.

Interactive Book Reader with RAG

DEC 2024

- Built an interactive book reader that asks questions about the book using an RAG pipeline.
- The system also summarizes books with graph-based RAG techniques for better comprehension.

Explore Ease

Jul 2024

- Developed a full-stack web application using Node.js, featuring an integrated chatbot with a local LLM to assist users in discovering places to visit along their route.
- Implemented a graph algorithm to generate optimal routes based on user-input destinations.
- Integrated an interactive map for enhanced user experience.

COURSES

Deep Learning Specialization

Sept 2024

Taught by Andrew NG, by Stanford University and DeepLearning.ai on Coursera.

Machine Learning Specialization

Aug 2024

Taught by Andrew NG, by Stanford University and DeepLearning.ai on Coursera.

Python 3 Programming Specialization

Aug 2024

By University of Michigan, on Coursera.

EXTRAMURAL ENGAGEMENTS

Technical Head at IIC-BMSIT

Led a team to build, develop and deploy the club's website and event-specific websites, now live and supporting ongoing and future events.

Volunteering

Collaborated with Yuvaka Sangha and NSS Karnataka to create a database of lakes and water bodies for conservation. Also donated a fully functional website to a government school in Rajanukunte.