

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 AISCCE 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.