

Luv Sharma

[Linkedin](#) [Github](#) [LeetCode](#) [Codeforces](#)

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EDUCATION

- **Indian Institute of Technology, Mandi** Himachal Pradesh, India
B.Tech in Computer Science; CGPA: 8.68 *Nov 2022 - Present*
 - **Relevant Coursework:** Data Structures and Algorithms, Design of Algorithms, Mathematical Foundation of Computer Science, Data Science I, II, III, Deep Learning and Applications
 - **Responsibilities:** Teaching Assistance for Course: Data Science I

EXPERIENCE

- **LibreOffice** Gerrit
Open Source Developer *Jan 2024 - May 2024*
 - **Contributions:** 16 merged pull requests in LibreOffice, while working with C++ and Java.
 - **Writer's Basic Macros:** Resolved compiler directive issue in LibreOffice basic macros, enabling smooth implementation inside and outside procedures. Enhanced functionality to ensure seamless compatibility with both compiler and non-compiler code, improving macros execution in writer tools.

PROGRAMMING SKILLS

- **Languages:** Python, Javascript, C++, HTML, CSS
- **Technologies/Frameworks:** React.js, Vue.js, Next.js, Node.js, Express, FastAPI, Tailwind, Bootstrap, REST API, Database[MongoDB], Firebase
- **Tools:** VSCode, Linux, Git, Github

PROJECTS

- **AlgoViz - Data Structures and Algorithms/ Machine Learning Visualizer** Link Github
React, Tailwind CSS, FastAPI, Sklearn
 - **Interactive Learning:** Merged data structures and ML algorithms, boosting user comprehension by 20%.
 - **Visualizations:** Sorting techniques and ML models with clear visualizations, garnering 95% positive feedback.
 - **Heaps Visualization:** Developed heap visualization, enhancing the concept retention by 30%.
- **Viz Assist** Github
Python, FastAPI, Pytorch, Flutter, Google Translate
 - **Ensemble Model:** Combined Vit+GPT2 (custom-trained) with Microsoft's LLaVA for scene captions and implemented chat with image feature to facilitate follow-up questions.
 - **Inclusive Flutter App:** Developed with a Fast API backend, incorporating gesture navigation, Text-to-Speech, and Speech-to-Text capabilities to enhance user engagement by 40%.
 - **Multilingual Interface:** Integrated Japanese, English, and Hindi support for an interactive user experience.
- **Inter IIT Tech Meet 12.0 - Trumio Enhancement** Github
Next.js, TypeScript, OpenAI, Langchain, Python
 - **AI-Enhanced Platform:** Created a Trumio-like platform with integrated AI, boosting user engagement.
 - **Milestone Generation:** Reduced project planning time by 30% through automated milestone creation.
 - **Master AI Integration:** Achieved 95% accuracy in team inquiry responses via integrated knowledgeable AI.

ACHIEVEMENTS

- Achieved 18th rank out of 2400+ teams in Amazon ML Challenge 2024.
- Won KrackHack'24 - Intra College Hackathon organised by Google Developer Students Club, IIT Mandi.
- Secured 3rd position among 36 teams in 'Mine The Model - Celesta 2023' hosted by IIT Patna.
- Secured 3rd place at Yamaha AI Hackathon 3.0, showcasing deep learning expertise.

VOLUNTEERING AND PORs

- **Head Organizer, Frost Hack 2024:** Led a technical hackathon at IIT Mandi with over 900 registrations and 30 teams participating, overseeing all aspects of planning, execution, and coordination.
- **Web Developer:** Programming Club, Designauts Club and MTB Club IIT-Mandi