

# 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 | Node.js |  
Python | Machine Learning | Deep Learning

## 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%

## PROJECTS

### 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.

### D4 - Data Driven Diabetes Decipher

**Feb 2024**

- Analyzed and predicted diabetes using the K-Nearest Neighbours (KNN) algorithm, implemented in C++ for faster training and prediction—achieving up to 10-50 times faster execution compared to Python for larger datasets.
- Trained the model on relevant health data to classify and predict the likelihood of diabetes in individuals.
- Aimed to facilitate early detection and effective management of diabetes.

### Government School Website

**Jan 2024**

- Developed a fully functional front-end website for a local school in Rajanakunte using HTML, CSS, and JavaScript.
- Implemented a language toggle feature to support viewing content in the local language, improving accessibility and engagement.

## 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

### Volunteering

Worked with Yuvaka Sangha in collaboration with AICTE and NSS Karnataka. Conducted comprehensive surveys to maintain a database of lakes and water bodies, contributing to environmental conservation efforts.