

# HARSHITHA C R

Software Engineer

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## Summary

Software Engineer with experience across **web development**, **backend engineering**, and **applied AI/ML**. Focused on writing reliable code and understanding systems end-to-end.

## Education

**New Horizon College of Engineering**

2023 - 2027

Bangalore, Karnataka

B.E

CGPA: 9.81

## Projects

**To-Do List Web App**

2025

[GitHub](#)

- Built a task management application with pure **JavaScript** to practice **DOM manipulation** and **event handling**.
- Implemented full **CRUD functionality** (Create, Read, Update, Delete) for tasks, with data stored locally in the browser

**OmniFood**

2025

[GitHub](#)

Live Demo: <https://omni-food-web-page.netlify.app/>

- Built a fully **responsive** and **accessible** Omnifood landing page using **semantic HTML**, **modern CSS**, and **vanilla JavaScript** for smooth, lightweight interactivity.

**Sign Language Recognition and Generation System**

2025

[GitHub](#)

- Developed a machine learning system that recognizes Indian Sign Language gestures in real-time using computer vision. Integrated a text-to-sign generation system using static images.
- Trained a model to classify hand gestures from a custom, labelled dataset of ISL signs with over **85% accuracy**.

**Two Tower Hybrid Recommender System**

2025 - Present

[GitHub](#)

- Developing a Two Tower Hybrid Recommender System to generate **personalized product suggestions** for the 1M+ review Amazon Electronics 2023 dataset.
- Implementing a two-tower TensorFlow model to combine user embeddings with product metadata, aiming to address **cold-start problem** and enhance recommendation relevance.

## Skills

### Languages

C++, Python, Java

### Web Technologies

HTML5, CSS3, JavaScript, Node.js

### Tools & Libraries

Git, GitHub, VS Code, Chrome DevTools, JupyterLab, TensorFlow, Pandas, NumPy, Scikit-learn

### Soft Skills

Problem Solving, Adaptability, Attention to Detail