

Snehaleena Rath

Front-End Web Developer

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Summary

Motivated Computer Science undergraduate specializing in Data Science with strong foundational skills in software development, computer vision, and web technologies. Experienced in building real-time Python and web-based applications. Quick learner with strong problem-solving abilities, seeking an entry-level software development or internship role.

Education

B.Tech in Computer Science and Engineering (Data Science), NIST University, Berhampur 2024 – Present

CGPA: 1st Sem – 7.95 — 2nd Sem – 8.2

Intermediate (12th), Science, Kharagpur Vision Academy, CBSE 2022 – 2024

Grade: 70%

Technical Skills

Programming Languages: Python, JavaScript

Frontend: React.js, HTML, CSS

Backend: Flask (Python)

Computer Vision: OpenCV, MediaPipe

Databases: SQL, MySQL

Tools & Concepts: Git, Problem Solving, Debugging, Real-Time Processing

Projects

Hand Gesture Controlled Game

Python — Computer Vision

- Developed a real-time hand gesture recognition system to control a hill-climbing game using webcam input.
- Implemented hand tracking and gesture detection using MediaPipe and OpenCV.
- Mapped recognized gestures to game controls for interactive gameplay.

Frontend Face Detection Web Application

Web Application

- Built a frontend-based real-time face detection application using webcam video streams.
- Implemented face detection to identify and display bounding boxes around detected faces.
- Designed a responsive user interface using HTML, CSS, and JavaScript.

Achievements

- Represented school in interschool-level running competitions.
- Completed multiple hands-on web and Python projects demonstrating strong problem-solving skills.
- Official Core Member of the Cloud Computing Club, contributing to cloud-based workshops, projects, and technical events.