

Basudev Moharana

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Bachelor of Technology

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EDUCATION

•Diploma in Computer Science and Engineering

DRIEMS POLYTECHNIC, Cuttack

2022-25

CGPA: 7.9

•Bachelor of Technology in Computer Science and Engineering

DRIEMS UNIVERSITY, Cuttack

2025-28

CGPA: Studing

PERSONAL PROJECTS

•Hand-Gesture-Math-Solver

An AI + Computer Vision Project

- Built an AI-powered math solver that recognizes hand-drawn equations in the air using OpenCV, cvzone, and Google Gemini AI.
- Implemented real-time hand gesture controls (draw, pause, clear, solve) through Mediapipe-based tracking.
- Developed an interactive Streamlit interface for live camera feed, equation rendering, and AI-generated solutions.

•SnakeGame

A Snake Game Using Python & OpenCV (Computer Vision Project).

- Built a real-time Snake Game using Python, OpenCV, and cvzone with hand gesture control.
- Designed smooth gameplay with gesture-based movement and score tracking.

•Real-Time Object Detection

AI-Based Real-Time Object Detection Project.

- Built a lightweight real-time object detection system using OpenCV.
- Detected and labeled multiple objects with bounding boxes, confidence scores, and FPS tracking.

EXPERIENCE

•Python Internship

Central Tool Room & Training Centre, Bhubaneswar

June - July 2024

offline

- Completed a 1-month intensive internship in Python, covering beginner to advanced concepts.
- Gained hands-on experience in scripting, automation, and project development.
- Worked on practical exercises and mini-projects to strengthen programming and problem-solving skills.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, Java, C/C++, HTML+CSS

Libraries : Python Libraries, ReactJs, numpy, pandas

Web Dev Tools: Nodejs, VScode, Git, Github

Frameworks: ReactJs

Cloud/Databases: MongoDB, Firebase, Relational Database(mysql)

Relevant Coursework: Object Oriented Programming, Data Structures & Algorithms, Operating Systems, Database Management System, Software Engineering.

Areas of Interest: Web Design and Development, Cyber Security, Cyber Defence.

Soft Skills: Problem Solving, Self-learning, Time-Management, leadership, Quick Learner, Creativity.

POSITIONS OF RESPONSIBILITY

–Python Internship Coordinator – CTTC, Bhubaneswar

July 2024

- * Assisted in organizing hands-on Python exercises for interns.
- * Supported the team in managing internship documentation and task tracking.