

Davesh Kumar Sahu

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Summary

Dedicated Computer Science Engineering student focused on robotics, automation, and AI. Proficient in C, C++, and Python with experience in developing autonomous mobile robots, SLAM, sensor fusion, machine learning, and computer vision. Skilled in hardware-software integration and passionate about building intelligent systems.

Education

B.Tech (Hons) in Computer Science Engineering, Chhattisgarh Swami Vivekanand Technical University, Bhilai 2021 – 2025
Senior Secondary (PCM), Kendriya Vidyalaya No.1, Raipur 2019 – 2021

Work Experience

Embedded Systems Intern, Bot Shreyasi Feb 2024 – Jun 2024
Engineered an autonomous robot using ROS2 for indoor navigation with LIDAR, IMU, and ultrasonic sensors. Integrated SLAM and real-time obstacle avoidance to support automated restaurant delivery.

Technical Projects

Human Pose Estimation Using OpenCV Oct 2024 – Jan 2025
Built a real-time pose tracking system using MediaPipe and OpenCV to detect 33 body landmarks for gesture recognition and fitness applications.

ML Model for Handwritten Digit Recognition Jun 2024 – Sep 2024
Achieved 95% accuracy using scikit-learn and CNNs on the MNIST dataset for digit classification.

Autonomous Robot for Smart Restaurant Feb 2024 – Jun 2024
Developed an autonomous navigation robot with ROS2 and SLAM for multi-table food delivery in restaurants.

AR-Based Application – Beyond Pages Sep 2023 – Jan 2024
Created an interactive AR app using Unity 3D and Blender for overlaying educational 3D models in real-world environments.

Line Follower Bot Jan 2023 – Mar 2023
Designed a robot using IR sensors and image processing for line following tasks with embedded C on microcontrollers.

Skills

C, C++, Python, ROS2, OpenCV, Scikit-learn, TensorFlow, Embedded Systems, Arduino, Raspberry Pi, Jetson Nano, Unity 3D, Blender, Git, Docker, Linux, IoT, Sensor Integration

Achievements & Certifications

- IEEE Idea Competition – 3rd Position for Energy Conservation (Mar 2022)
- Hackathon – AVESH, GEC Raipur (Mar 2023)
- Machine Learning Course – Udemy (Jul–Sep 2023)
- Backend Web Development – GDSC KIIT (Aug 2023)