JAYANTI GORECHA

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SUMMARY

Robotics and Automation Engineer and B.Tech graduate from Medi-Caps University with expertise in autonomous systems, robotics design, and automation. Led projects on amphibious propellers, obstacle-avoiding systems, and smart irrigation. Skilled in Python, Arduino, ROS2, SLAM, Nav2, RViz, Gazebo, CNC, and 3D printing. Experienced in technical event volunteering, showcasing strong problem-solving, teamwork, and communication skills.

TECHNICAL SKILLS

Programming Languages:	Python, C++
Automation:	Arduino, ESP32
Robotics Frameworks:	ROS2, SLAM, Nav2, RViz, Gazebo
Design and Simulation Tools:	ANSYS, XFOIL, OpenVSP
Manufacturing Technologies:	CNC, 3D Printing, Additive Manufacturing
Data Processing & IoT:	Google Sheets Integration, Wi-Fi-based Data Transmission
Machine Learning Basics:	Linear Regression, Logistic Regression, Decision Trees

INTERNSHIP AND PROJECTS

Robotics Intern – Kody Technolab Pvt. Ltd.

Apr 2025 – Oct 2025
- Worked on robotic automation systems focusing on motion planning and control.
- Developed and tested robot navigation frameworks using ROS2, SLAM, and Nav2.
- Assisted in the integration of sensors and actuators for autonomous robotic systems.

Intern, Design of Amphibious Propellers – IIT Mandi

Jun 2024 – Jul 2024
- Designed and optimized a hybrid propeller system using CFD analysis, CST parametrization, and optimization algorithms.
- Conducted dynamic testing of APC propellers and analyzed performance in air and water.
- Gained insights into hybrid propulsion systems, cavitation effects, and optimization trade-offs.

Metal Crack Detection using Acoustic Sensors – Medi-Caps University

Sep 2024 – Dec 2024
- Developed an acoustic sensor-based system for detecting metal defects.
- Focused on predictive maintenance and quality control applications.

EDUCATION

Bachelor of Technology in Robotics and Automation (CGPA: 8.2)

Medi-Caps University, 2021 – 2025
- Relevant coursework: Robot Design, Programming, and Algorithm Development.

Shri Rajendra Vidhaya Sanskar Dham, Rajgarh Dhar

- 12th CBSE: 79%
- 10th CBSE: 84.4%

ADDITIONAL INFORMATION

- Languages: English, Hindi, Spanish
- Certifications: Smart UAS: AI/ML in Communication, Navigation, and Application
- CNC and Robotics Training