

# Pooja Yadav

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Location: Alwar , Rajasthan

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## CAREER OBJECTIVE

A highly motivated and enthusiastic Computer Science undergraduate with a strong foundation in programming, web development, and problem-solving. Passionate about building real-world applications and continuously exploring new technologies. Eager to contribute to impactful projects in full-stack development, automation, and intelligent systems while gaining practical experience and enhancing my technical and collaborative abilities.

## TECHNICAL SKILLS

**Frontend** : HTML 5, CSS, JavaScript  
**Backend** : Python, Java  
**Framework** : Bootstrap , Node.js, Springboot  
**Databases** : MySQL  
**Tools & Platforms:** Visual Studio Code, Labelbox

## EDUCATION

<b>NIIT University Neemrana</b> <i>BTech in Computer Science</i>	Neemrana - In Progress(2023-2027) Current : 9.62 CGPA
<b>Higher Secondary Education, RBSE</b> <i>Scored 90 percent marks</i>	Jaipur
<b>Secondary Education, RBSE</b> <i>Scored 95 percent marks</i>	Jaipur

## PROJECTS

<b><u>Gesture-Based Bot</u></b>	<i>Tech Stack: Spring Boot, SQL, HTML/CSS</i>
<ul style="list-style-type: none"><li>Implemented <b>wireless gesture recognition</b> for <b>hands-free, real-time robotic control</b>.</li><li>Integrated a <b>gesture-sensing module</b> (e.g., accelerometer, gyroscope) for capturing <b>directional input</b>.</li><li>Enabled <b>obstacle avoidance</b> using <b>ultrasonic sensors</b> with <b>real-time feedback</b> and <b>distance measurement</b>.</li><li>Developed a <b>Spring Boot backend API</b> to send directional commands to the ESP32 controller.</li><li>Designed a <b>web-based UI</b> using HTML/CSS for gesture simulation and bot interaction.</li><li>Integrated with a <b>MySQL database</b> to log gesture commands, bot responses, and sensor data for monitoring and analytics.</li></ul>	
<b><u>Edge Detection in Medical Imaging</u></b>	<i>Tech Stack: OpenCV, Python</i>
<ul style="list-style-type: none"><li>Implemented <b>Sobel and Scharr operators</b> for <b>gradient-based edge detection</b> in medical and computer vision images.</li><li>Utilized <b>partial derivatives</b> to highlight <b>intensity changes and texture features</b> in diagnostic scans.</li><li>Integrated <b>OpenCV in Python</b> to enable <b>cross-platform analysis</b>.</li><li>Enhanced <b>feature visibility</b> to assist in <b>automated image classification and segmentation workflows</b>.</li></ul>	
<b><u>Autonomous Pollination Rover</u></b>	<i>Role: Researcher</i>
<ul style="list-style-type: none"><li>Addressed the critical need for alternative pollination methods due to declining bee and pollinator populations, essential for maintaining crop productivity.</li><li>Designed and developed an <b>IoT-enabled ground-based rover</b> for <b>autonomous navigation</b> and <b>targeted pollination</b> in fields.</li><li>Utilized <b>sensors and real-time environmental data</b> to enhance crop yield.</li></ul>	