



Registration Number: 22BAC10026

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## Sourabh Shrivastava

**Technical Skills:** Python, Embedded C, Computer vision, Java, Embedded System, MATLAB and Machine Learning

## Certifications:

Python Essential Vityarthi Jan '23, Applied ML in python Coursera Dec'23, Image Processing MATLAB June'24, Signal Processing MATLAB Feb'24, MATLAB Onramp Jan'24.

## EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech ECE	Oct'22 -Ongoing	Vellore Institute of Technology, Bhopal	9.00/10
Class XII	May'22	School for Excellence Dewas (M.P)	93.00%
Class X	May'20	School for Excellence Dewas (M.P)	98.33%

## ACADEMIC PROJECTS

<b>Fruits and Vegetable Spoilage detection System</b> (Sep'23- Nov'23)	<ul style="list-style-type: none"><li>Description: Developed a system that utilizes the MQ2 gas sensor and Ultrasonic Sensor to detect methane levels, assessing fruit and vegetable spoilage in real-time. Promoting sustainability by reducing food waste.</li><li>Technology: Embedded C, IOT sensors, Actuation system, Controllers and Drivers</li><li>Role: Hardware and software implementation</li></ul>
<b>Gesture Control Electronics</b> (Feb'24-May'24)	<ul style="list-style-type: none"><li>Description: An automated system using Raspberry Pi 4B, a 5MP camera, and a 4-Relay module to control electronic devices with hand gestures. It uses Python libraries like Mediapipe and OpenCV for real-time gesture recognition, enabling easy and touchless control of lights, motors, and more.</li><li>Technology: Python, IOT sensors, Drivers, Actuation system and Processor</li><li>Role: Connect hardware with software</li></ul>

## EXTERNSHIP

Maven Silicon	<ul style="list-style-type: none"><li>Embedded Systems Intern (Jan'25 – April'25)</li><li>Demonstrated applied proficiency with Arduino UNO Rev3, Raspberry Pi 3, and Node MCU boards Effectively integrated diverse sensors to gain knowledge of 3 Serial Communication protocols</li></ul>
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## EXTRA-CURRICULARS AND ACHIEVEMENTS

Achievements	<ul style="list-style-type: none"><li>Honoured with STARS Scheme at VIT Bhopal University for securing 2nd rank in the 12th class with 93.00% in the district, awarded with 100% scholarship. (Aug'22)</li><li>Secured first position in district merit in class 10.</li><li>Finalist in project expo industrial conclave VIT Bhopal. (Dec'24)</li></ul>
Responsibilities	<ul style="list-style-type: none"><li>Active member of AI and AIEM club</li><li>Volunteered at a 2-day National Symposium on Innovations in Intelligent Systems sponsored by the Anusandhan National Research Foundation (ANRF), Govt. of India gained valuable experience. (Feb'25)</li></ul>
Extracurricular	<ul style="list-style-type: none"><li>Solved 200+ problems in geeks for geeks</li></ul>

## ADDITIONAL INFORMATION

Hobbies	Watching and playing Cricket, Singing
Languages	Hindi, English