Mayank Mahesh Gawade
Mechanical Engineering Undergraduate

Mechanical Engineering undergraduate with a strong foundation in manufacturing, design, and automation. Interested in automotive manufacturing, quality, and R&D roles, with hands-on exposure to inspection systems, IoT-based automation, and electric vehicle concepts.

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SKILLS

- Automation: Robotics & Automation, Sensors & Actuators
- Design: SolidWorks, AutoCAD
- IoT & Embedded: NodeMCU ESP8266, Embedded C (Basics)
- Programming & Tools: Python (Basic), MS Excel, PowerPoint
- Simulation (Basic): ANSYS, MATLAB, Hypermesh

INTERESTS

- Automotive engineering and vehicle systems
- Electric vehicles and powertrain technologies
- Manufacturing automation and smart factories
- Artificial Intelligence

EDUCATION

Bachelor of Technology (B.Tech) – Mechanical Engineering | Honors in Robotics & Automation
Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering & Technology (VPKBIET)

06/2023 - Present *Currently in 3rd Year | CGPA- 8.71 till 5th Semester | 9.5 in Robotics & Automation*

ORGANIZATIONS

Mechanical Engineering Students Association (MESA) (07/2025 - Present)
Technical Head

ASHRAE Student Chapter, Baramati (01/2025 - Present)
President

GATE Club, VPKBIET (10/2024 - Present)
Vice President

CERTIFICATES

Automation in Manufacturing (Elite Silver) from NPTEL (08/2025 - 11/2025)
Covered automated manufacturing systems, production processes, and industrial automation concepts.

Robotics (Elite) from NPTEL (07/2025 - 09/2025)
Studied fundamentals of robotics including kinematics, actuators, sensors, and automation systems.

SolidWorks CAD Fundamentals from edX, Dassault Systemes (05/2025 - 07/2025)
Gained hands-on experience in 3D modeling, assemblies, and engineering drawings using SolidWorks.

MATLAB Onramp Certification (Basic Applications) (08/2023 - 10/2023)
Worked with basic numerical computation, data analysis, and engineering problem-solving using MATLAB.

Introduction to IoT and Digital Transformation by Cisco Networking Technologies (04/2025 - 06/2025)
Learned IoT architecture, sensor integration, and digital technologies applied to industrial systems.

PERSONAL PROJECTS

AI-Based Welding Inspection System (07/2025 - Present)
- Studied common welding defects and inspection practices used in manufacturing industries.
- Designed a computer-vision-based approach for weld defect detection and classification.
- Focused on improving inspection consistency and reducing dependency on manual inspection.

Automatic Irrigation System using IoT (05/2024 - 07/2024)
- Developed a sensor-based irrigation control system using NodeMCU ESP8266
- Integrated moisture and flow sensors with automated pump control