

MANTHAN GOURSHETE

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[GitHub](#) | [LinkedIn](#)

PROFILE

A motivated Electronics and Telecommunication Engineering student with a passion for robotics, automation, and AI/ML. Eager to apply hands-on experience in embedded systems, control systems, and machine learning to contribute to innovative projects in the automation industry. Proven ability to develop functional prototypes, from AI-powered gesture control to power-harvesting systems, and a strong desire to solve real-world engineering challenges.

EDUCATION

Deogiri Institute of Engineering and Management Studies Bachelor of Technology in Electronics and Telecommunication Engineering	(2022-2026)
Vivekanand College Higher Secondary Certificate • Percentage - 88.2%	(2020-2022)
Delhi Public School Secondary School Certificate • Percentage - 89.3%	(2019-2020)

EXPERIENCE

Acmegrade IoT Intern • Gained hands-on experience with IoT systems, integrating various sensors and actuators. • Developed and deployed microcontroller-based solutions for data acquisition and control.	<i>4 months</i>
MSME Technology Center, Indo German Tool Room Embedded Systems Intern • Programmed and debugged applications on the LPC2148 microcontroller (ARM7TDMI-S). • Gained experience with industry-standard development tools and practices for embedded systems.	<i>2 months</i>

TECHNICAL SKILLS

Programming Languages:	C, Python, Java, MATLAB
Embedded Systems:	Arduino, Raspberry Pi, LPC2148, IoT (NodeMCU, ESP8266), RTOS Concepts
AI/ML:	Computer Vision (OpenCV), Scikit-learn, Python AI Libraries
Software Engineering:	Data Structures & Algorithms, Version Control (Git), OS Concepts
Web Development:	HTML, CSS, JavaScript, React

PROJECTS

AI Video Analytics Dashboard • Developed a web-based dashboard to analyze real-time video streams for object detection and tracking. • Implemented a backend with Python and OpenCV for video processing and a responsive frontend with React.	<i>Python, OpenCV, React</i>
Pinchit AI • Developed an AI-powered gesture control system to manage device intensity (lights, fans). • Achieved over 90% accuracy in real-time gesture recognition using computer vision.	<i>Arduino, Python, OpenCV</i>
Footstep Power Generator • Designed a prototype demonstrating power electronics principles for energy harvesting. • Successfully converted kinetic energy from footsteps into electrical energy to power an LED.	<i>Arduino, Piezoelectric Sensors</i>
AI Integrated Sign Language • Engineered a proof-of-concept interpreter using flex sensors to translate sign language. • The system successfully identifies and displays distinct hand gestures as text in real-time.	<i>Arduino, Flex Sensors</i>

ACCOMPLISHMENTS

- Avishkar Zonal Level (Bronze Medal)
- National Level Basketball Player
- Innohack 2.0 Top 10

POSITIONS OF RESPONSIBILITY

- IETE DIEMS Chairperson
- Training & Placement Cell Member
- Robotics Club Co-ordinator

CERTIFICATIONS

- IoT Internship Certificate - Acmegrade (4 months)
- Embedded Systems Internship Certificate - Indo German Tool Room, Aurangabad (2 months)
- Schneider Electric India Foundation training