

MANTHAN GOURSHETE

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

PROFILE

Electronics and Telecommunication Engineering student (Batch 2026) with strong foundations in software architecture, scalable data pipelines, and embedded systems. Experienced in full stack development, API integration, and backend engineering using Python and Next.js. Passionate about building reliable, enterprise grade automation and performance driven engineering systems.

EDUCATION

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

EXPERIENCE

Jabil Debug Engineer Intern • Performed PCB level debugging and failure analysis for telecom and embedded products. • Diagnosed hardware faults using oscilloscopes, multimeters, and logic analyzers. • Supported functional testing, rework validation, and root cause analysis in manufacturing environment.	Present
Lets Grow Ventures Technical Lead • Led architecture and deployment of embedded automation and software solutions for enterprise client applications. • Integrated firmware, sensors, and dashboard systems for scalable monitoring solutions.	Present
Acmegrade IoT Intern • Designed cloud connected IoT systems using ESP8266, MQTT, and Firebase. • Implemented reliable device to cloud communication achieving 98% data consistency.	4 Months
MSME Technology Center (Indo German Tool Room) Embedded Systems Intern • Programmed LPC2148 (ARM7) microcontrollers in Embedded C for ADC, UART, and PWM applications. • Debugged hardware interfaces using JTAG and structured firmware validation practices.	2 Months

TECHNICAL SKILLS

Programming & Web: Python, C/C++, SQL, JavaScript, Next.js, HTML/CSS
Backend & Cloud: Firebase, Node.js, REST APIs, System Architecture
Embedded Systems: ARM7, STM32, ESP8266, Arduino, Raspberry Pi, FreeRTOS (Basics)
Tools & Protocols: Git, MQTT, HTTP, UART, SPI, I2C, STM32CubeIDE, PlatformIO

PROJECTS (INDUSTRY DEPLOYED)

Swastik Auto Parts B2B Data Synchronization Pipeline • Engineered an automated data pipeline using Python to synchronize inventory and transactions between legacy BUSY accounting software and a modern web frontend. • Integrated Next.js and Firebase to deliver real time stock visibility, successfully deployed and actively used in industry.
Custom Manufacturing ERP & Traceability System (In Progress) • Developing a full stack Enterprise Resource Planning (ERP) platform, currently being deployed in industry, to track raw material entry and manufacturing processes for a silicone oil facility. • Implementing backend workflows and data tracking modules to ensure end to end product traceability across the production lifecycle.
Pinchit AI: Gesture Recognition Automation System • Developed real time gesture recognition interface using Python and OpenCV integrated with Arduino. • Achieved under 200ms response latency for motor and lighting control.

ACHIEVEMENTS & EXTRACURRICULARS

- Winner – OpenAI x NxtWave Buildathon (Zonal)
- Bronze Medal – Avishkar Zonal (2024)
- Chairperson – IETE DIEMS (2025 – 2026)
- Coordinator – Robotics Club
- Qualified – India Skills (State Level)
- National Level Basketball Player