

Nandita Goyal

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SKILLS

- **Languages:** C, C++, Python
- **Core Concepts:** DSA, Embedded systems fundamentals, IoT, OOP
- **Tools/Platforms:** MATLAB, Keil, Proteus, Pspice, Arduino IDE
- **Microcontrollers:** Arduino, ESP32, 8051
- **Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

INTERNSHIP

- **Varisis Advanced Engineering Private Limited** June 2025 - July 2025
 - *Embedded Intern*
 - **About:** Worked on Perimeter Intrusion Detection System (PIDS) using the arduino nano 33 BLE sense. Gained hands-on experience with Edge Impulse, embedded systems, and sensor data integration.
 - **Tech stacks used:** Embedded C - Arduino
- **Lion's Club** June 2024 - July 2024
 - *Volunteer*
 - **Project Overview:** Volunteered with Lions Clubs International (India) to support local community service initiatives. Participated in organizing eye check-up and awareness camps, led cleanliness drives, and was actively involved in tree plantation efforts to promote environmental sustainability.

PROJECTS

- Patient Monitoring System using IoT:

Open source patient monitor based on esp 32.
SPO2 and heart rate monitoring app with ability to connect to external pulse oximeter sensor via IOT.
The proposed project can collect and send patient's health data.

- Smart Electrical Safety Cut-Off System:

Designed a smart electrical safety system to automatically disconnect power during unsafe operating conditions using esp32. It prevents overheating and electrical hazards in household appliances such as heaters and mobile phones. It enhances appliance safety by minimizing risk of damage due to prolonged usage.

- Gesture Controlled Car Using Arduino UNO:

It combines the power of Arduino, a microcontroller platform, with the simplicity and intuitiveness of hand movements to operate the car wirelessly. Users can navigate the car simply by moving their hand. It demonstrates the potential of gesture-based control systems and showcases the capabilities of Arduino in transforming hand movements into actionable commands for a physical device.

CERTIFICATES

- Database Management Systems (Nptel) Sep 2025
- C Programming Comprehensive Training Bundle (Infosys springboard) June 2024
- Supervised Machine Learning Course (Scaler Topics) March 2024

EDUCATION

- **Lovely Professional University** Punjab, India
 - *Bachelor of Technology – Electronics and Communication Engineering; CGPA: 7.42* Since August 2023
- **Vidya Global School** Meerut, Uttar Pradesh
 - *Percentage: 78%* April 2022 - March 2023
- **Vidya Global School** Meerut, Uttar Pradesh
 - *Percentage: 93%* April 2020 - March 2021