

# Gopal Choudhary

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## Skills

**Languages:** *HTML, CSS, C++, C, Python*

**Frameworks and Tools:** GitHub, VLSI, MATLAB

**Fundamentals:** Microprocessor and Microcontroller, Computer Network, Operating System

## Projects

### Solar Tracking System: -

- Developed a solar tracking system using Arduino, servo motors, and LDRs to enable solar panels to follow the sun automatically.
- Enhanced energy efficiency and system performance by optimizing real-time sunlight alignment.

### Smart Attendance tracking System: -

- Developed a Smart Attendance System using biometric technology to automate student/staff attendance tracking, saving time and reducing human error.
- Enhanced accuracy and efficiency by integrating real-time data processing and secure storage.

### Smart Agriculture monitoring System: -

- Designed and implemented a Smart Agriculture Monitoring System using IoT sensors (e.g., DHT11, soil moisture sensor), Arduino, and a relay module to track soil moisture, temperature, and humidity for optimized farming.
- Enabled real-time data analysis and automated irrigation control, improving water usage efficiency and crop yield.

### Advanced Home Security and Home Automation System: -

- Developed an Advanced Home Security and Home Automation System using Arduino, PIR sensors, relay modules, and ESP8266 for remote door locking and monitoring.
- Integrated IoT technology for real-time alerts via a smartphone app, enhancing home security and automating device control.

## Education

Chandigarh Engineering college Jhanjeri Mohali, India,   CGPA: 8.9	2022-2026
Kendriya Vidyalaya, India, CBSE (Class XII) Aggregate: 73.6%	2020-2021
Central Academy, India, CBSE (Class X) Aggregate: 80%	2018-2019

## Extra Circular activity: NATIONL CADET CORPS (AIR WING)

### Certificate: -

- Python
- 5-Day IOT Workshop