Gopal Choudhary

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Education

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

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.**

Tech-Stack & Skills

Languages & Web Technologies: C++, C, Python, HTML, CSS

Database Management/Servers & Version Control: GitHub, MATLAB, KiCad

Soft Skills: Problem-solving, Critical thinking, Conflict management, Decision-making, Teamwork

Certifications & Training

- **Python**
- **5-Day IOT Workshop**

Extra circular activity

NATIONAL CADET CORPS (AIR -WING)