

# Ganit Yadav

+91-8718088713 ganityadav07@gmail.com LinkedIn GitHub

## Education

**VIT Bhopal University, Madhya Pradesh**  
*B.Tech in Electronics and Communication Engineering*

**Sept 2023 – Ongoing**  
**CGPA: 9.24/10**

## Technical Skills

- **Languages:** C++, Embedded C, Python, Java.
- **Tools:** MATLAB, LTspice, Arduino, ESP32.

## Academic Projects

**Visitor Notification and Smart Locking System | ESP32-CAM, Telegram Bot, LCD, Solenoid Lock** **Jan 2025 - May 2025**

- Developed an IoT-based visitor notification system using ESP32-CAM to capture visitor images and transmit them securely to a mobile device via a Telegram Bot.
- Implemented a push-button-based image capture mechanism, while enabling remote door locking and unlocking exclusively through Telegram commands (/lock, /unlock).
- Integrated an external LCD display to show real-time availability status and custom messages, enhancing visitor communication and user awareness.
- Role: Software and Hardware Integrator. [GitHub](#)

**Smart Irrigation Monitoring System | ESP32, IoT, Blynk, DHT11, Soil Moisture Sensor** **Sep 2024 - Dec 2024**

- Designed and developed an IoT-based smart irrigation system using ESP32 to monitor soil moisture and environmental parameters in real time.
- Implemented automatic motor ON/OFF control based on predefined threshold values of soil moisture and DHT11 sensor readings to ensure optimal irrigation.
- Enabled remote monitoring and control through the Blynk IoT platform, allowing users to track sensor data and system status in real time.
- Role: ESP32 Logic Development. [GitHub](#)

**Obstacle Detection System for Visually Impaired | Arduino, Ultrasonic Sensor, Buzzer** **May 2025 – July 2025**

- Developed an embedded system-based assistive solution for visually impaired individuals to detect nearby obstacles using ultrasonic sensing technology.
- Implemented real-time distance measurement by calculating echo time of ultrasonic waves reflected from obstacles.
- Designed a distance-based alert mechanism where buzzer frequency dynamically increases as the obstacle distance decreases, providing intuitive real-time feedback.
- Role: Software and Hardware Integrator. [GitHub](#)

## Externship

**Embedded System Design Internship** — Maven Silicon — May 2025 – July 2025

Developed the “Obstacle Detection for Visually Impaired” project using Arduino and ultrasonic sensors with buzzer alerts. Gained hands-on experience in embedded programming, sensor integration, and user-centric IoT design.

[Certificate](#)

## Certifications

Introduction to Internet of Things – NPTEL  
C Programming – NPTEL

[Certificate](#)  
[Certificate](#)

## Achievements & Co-Curricular Activities

District Topper – MP Board Result 2023.  
Honoured with **100%** scholarship under the **”STARS SCHEME”** at VIT Bhopal.  
Solved **300+** problems on LeetCode.  
Solved **400+** problems on GeeksForGeeks.

## Additional Information

**Hobbies:** Playing Cricket.

**Languages:** English, Hindi.