

# ROHIT SINGH

ECE Engineer



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## SUMMARY

Electronics and Communication Engineering student with hands-on experience in embedded systems, computer vision, and mobile application development. Strong interest in building intelligent, real-world systems by integrating hardware, cloud services, and modern software.

## EDUCATION

Bachelor of Technology (B.Tech) in Electronics & Communication Engineering  
University / College Name | Year

## SKILLS

- **Programming:** C++, Python
- **Embedded & Hardware:** ESP32, Arduino, Embedded Systems, ECE
- **ECE Computer Vision :** OpenCV, NumPy
- **Mobile & Cloud:** Flutter, Dart, Firebase (Firestore, Auth, FCM)
- **Systems & Tools:** Linux, Git, Arduino IDE

## PROJECTS

- **Smart Doorbell System** – ESP32, Firebase, Cloudinary, Python, Flutter - Designed and implemented an IoT-based visitor monitoring system. - Captured images using ESP32-CAM and delivered real-time notifications. - Built a Flutter app for visitor history and alerts.
- **Chat Application** – Flutter, Firebase - Developed a real-time chat application with authentication. - Implemented message synchronization using Firebase Firestore.
- **MelodySync (In Progress)** – Python, DSP, MIR - Building a voice-activated system that synchronizes song playback from where a user stops singing. - Working on pitch extraction and melodic pattern matching.

## INTERESTS

- Embedded Systems
- Mobile Applications
- Computer Vision
- Intelligent Human-Computer Interaction

## INTERNSHIP AND EXPERIENCE

Currently pursuing B.Tech; no internships or formal work experience yet