DAYANANDA SAGAR COLLEGE OF ENGINEERING
(An Autonomous Institute affiliated to Visvesvaraya Technological University (VTU), Belagavi,
Approved by AICTE and UGC, Accredited by NAAC with 'A' grade & ISO 9001-2015 Certified Institution)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru - 560 111.

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

PROJECT PRESENTATION

StreeRaksha- Smart IoT-Enabled Personal Safety Device for Women

Group No.12
AKSHAY N
AMAN A SHETTY
AMLENDU KUMAR
ROHIT GAJRE

Guided By:
Dr. Madhura J
Assistant Professor

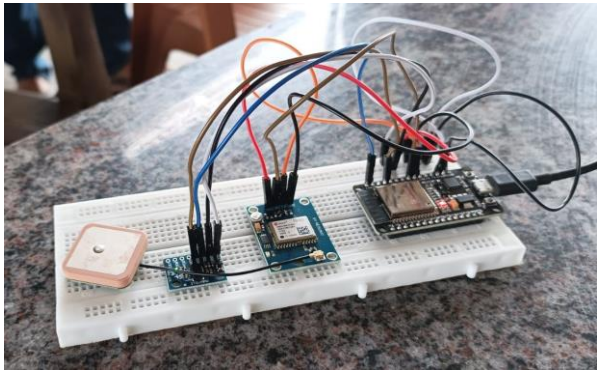
Objective

- Develop a discreet wearable safety device for emergency alerts.
- Enable real-time GPS location tracking. Data.
- Create a scalable, affordable solution for diverse users.

Experimental Details

- Design: GPS, accelerometer, and push button controlled by ESP32 with Wi-Fi.
- Function: Sends real-time location alerts via cloud using automatic triggers.
- Results: ±5m GPS accuracy, alerts in 10 seconds, 8+ hours battery life.

Background/Photos of the Project if any



Salient Features of the Project

- Automatic (motion detection) activation for emergencies.
- GPS-enabled location sharing with swift cloud-based notifications.
- Compact, efficient, and long battery life.

Applications of the Project

- Ensures women's safety with real-time alerts.
- Provides security for children and the elderly.
- Aids quick response by authorities.

Results / Output

- Real-time GPS tracking with ±5m precision.
- Alerts delivered within 10 seconds via cloud.
- 8+ hours of battery life on a single charge.

Conclusion

- Improves personal safety with real-time alerts.
- Dual activation modes ensure flexibility.
- Compact, reliable, and cost-effective.