KAVACH





Why Personal Safety Matters

The importance of personal safety in modern society

- The rising need for innovative safety solutions
- Statistics on the increase in personal safety concerns

Solution: A Voice-Activated Safety
Device

- Voice-activated safety features
- Combines multiple safety technologies into one wearable device
- Accessible and easy to use in emergencies

The Tech Behind the Device

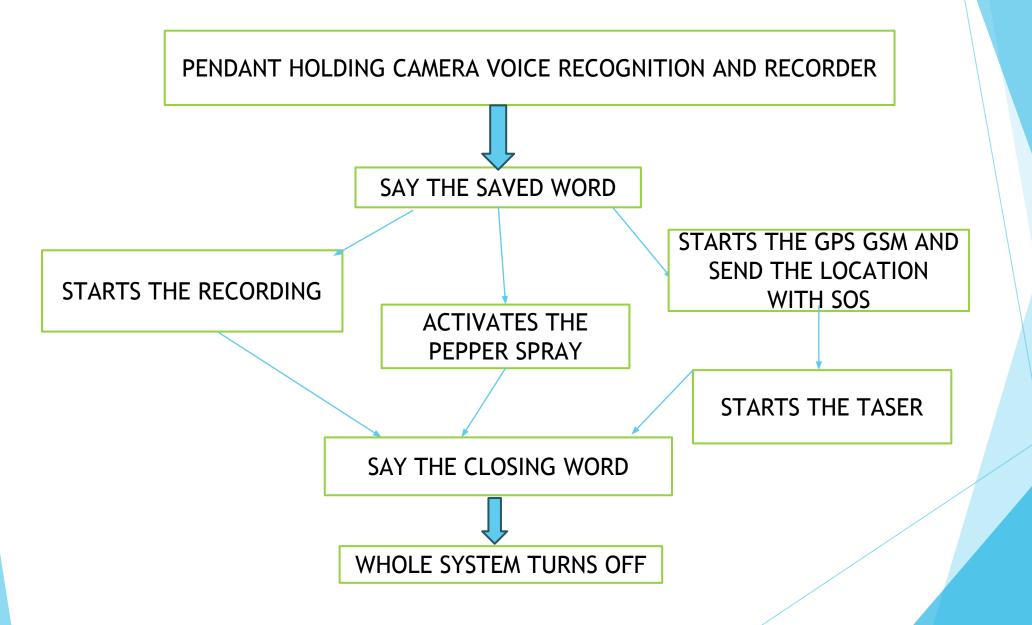
- Arduino Nano/Node Mcu: The brain of the device
- Nrf module: making: for wireless signal transfer
- Voice Recognition Module: Hands-free safety activation
- •GPS Module: Tracks real-time location
- •GSM Module: Sends location and emergency messages
- •Camera Module: Captures images or video during incidents
- •Microphone: Records audio for evidence
- •Shock Module: Delivers a self-defense electric shock
- Pepper Spray Module: Deters attackers at close range

A Seamless Safety Experience

STEPS TO

- **Step 1:** Voice command activation
- **Step 2:** Automatic GPS tracking and GSM alert
- Step 3: Camera and voice recorder captures surroundings and audio
- **Step 4:** Shock and pepper spray modules are deployed for self-defense

WORKFLOW/ARCHITECTURE



Key Features Breakdown

- Voice Recognition: Quick and reliable safety activation with pre-set commands.
- •GPS & GSM Communication: Sends the wearer's location to pre-set emergency contacts.
- •Camera & Audio Recording: Collects visual and audio evidence in real-time.
- •Self-defense Mechanisms: Shock module and pepper spray ensure last-resort protection.

Compact and

- Lightweight design for everyday use
- Sleek, modern look that can be worn discreetly
- Built with durable materials for outdoor conditions

Real-World Applications

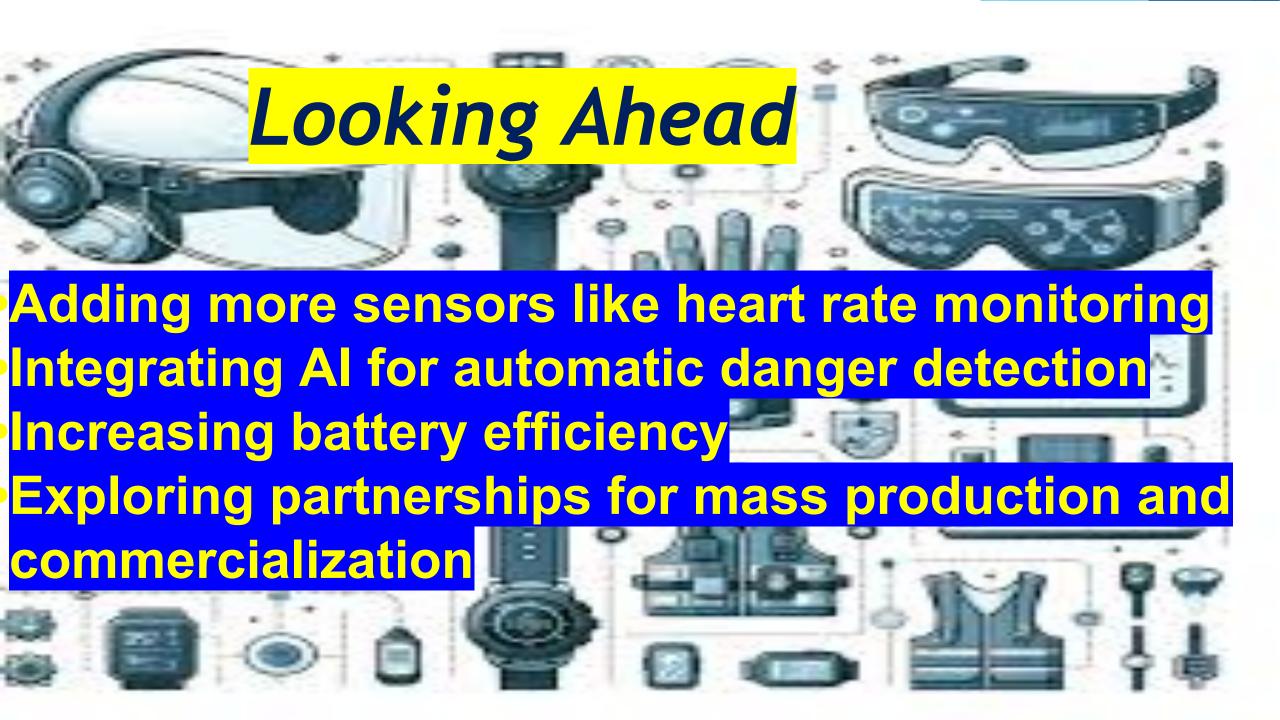
- Personal safety while traveling
- Protecting vulnerable populations (students, elderly)
- Emergency response for outdoor adventurers
- Security personnel in high-risk situations

Fast Response in Critical Situations

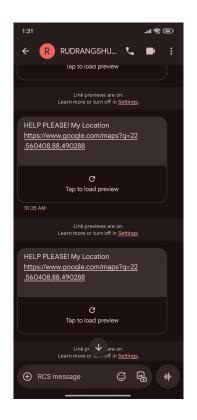
- Device activation in under 2 seconds
- Automatic emergency contact alerts
- Self-defense deployment in real-time
- •No complex controls or interfaces just voice

Overcoming Development Challenges

- Integrating multiple sensors and modules into one device
- Ensuring reliable voice recognition even in noisy environments
- Power consumption management for long battery life
- Compact design without compromising functionality



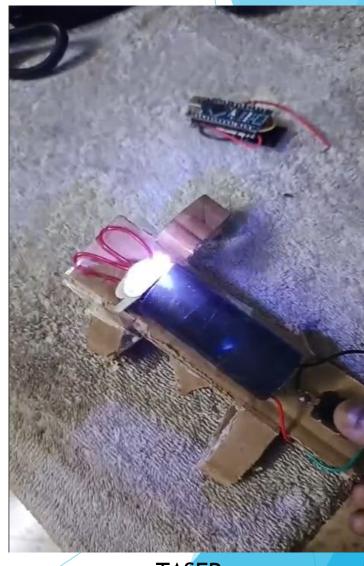
CURRENT PROGRESS





CAMERA AND VOICE

GPS+GSM SENDING LOCATION



TASER

GITHUB: https://github.com/RUDRANGS HU2004/KAVACH.git

VIDEO OF THE CURRENT SITUATION OF THE PROJECT:



Conclusion

- Empower Safety, Anytime, Anywhere
- Impact on personal safety
- The future of safety technology

THANK YOU FOR VIEWING OUR PROJECT