

# **MINOR PROJECT ABSTRACT**

**IOT based wearable device for the safety and security of  
women and girl children**

submitted by

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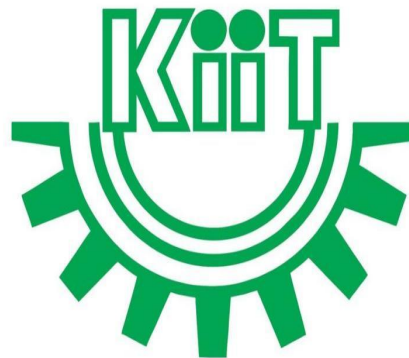
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November 2023

**Title:** IOT based wearable device for the safety and security of women and girl children.

**Objective:**

The main goal of this project is to develop a device that utilizes Internet of Things (IoT) technology to enhance the safety and security of women and girls.

**Methods/Approach:**

Our innovative wearable device combines sensor technologies, wireless connectivity protocols and edge computing to enable real time tracking of location broadcasting distress signals and analyzing data. By incorporating geofencing algorithms and artificial intelligence the device incorporates activation methods and anomaly detection for safety measures.

**Results/Findings:**

During emergencies, the wearable device allows for sharing of location information while activating a system that immediately notifies predefined contacts or law enforcement. Additionally it offers activation options, automated alerts based on anomaly detection algorithms and analysis of conditions to provide proactive safety features.

**Conclusion/Implications:**

This project not only presents a solution to address individual safety concerns but also introduces a new approach, to community safety by combining IoT technology with data driven insights.

**Keywords:**

Internet of Things (IoT), Wearable Technology, Sensor Networks, Location Tracking, Distress Signals, Environmental Analysis, Anomaly Detection, Edge Computing, Safety Technology, Community Security.