**SafeSight**

**SafeSight** is an AI-driven Women Safety Solution that integrates an **Intelligent Camera System** with a **Gesture-Based Safety Mobile Application**. This dual-component system ensures **proactive threat detection** and **real-time emergency response** to protect women in public and private spaces.

**TEAM MEMBERS**

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**OBJECTIVE**

The core objective of **SafeSight** is to build a smart, real-time, and scalable safety infrastructure by leveraging **AI-based video surveillance** and **gesture recognition technology**. The solution focuses on **preventing** and **responding** to safety threats for women **before** they escalate.

**FUNCTIONALITY**

SafeSight is built with two key components working in tandem:

**🔹 1. Intelligent Camera System**

The AI-powered CCTV system monitors real-time footage to detect potential threats, such as distress gestures or suspicious activities. It instantly alerts authorities for quick intervention. This proactive approach enhances public safety and prevents incidents before they escalate.

**🔹 2. Gesture-Based Mobile App**

1. The safety app offers features like SafeSpot navigation and SOS alerts, which can be sent even in low-network areas. Along with these, the app includes several other safety features to enhance women's security and provide proactive.

**TECH STACKS USED**

**BACKEND**

* **Python** – For AI model handling and gesture logic
* **Flask** – API for backend routing and alerts
* **Twilio API** – To send SMS alerts

**FRONTEND**

* **Flutter** – Cross-platform mobile app development
* **Dart** – Programming language for Flutter

**HARDWARE / EDGE DEVICES**

* **NVIDIA Jetson Orin NX** *(or)* **Google Coral Dev Board**
* **CCTV/IP Cameras** integrated with edge computing for on-device inference

**FILE STRUCTURE**

SafeSight/

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├── safesight\_yolo(sih).ipynb # YOLOv5-based threat detection model

├── safesight(men\_and\_women).ipynb # Gender detection and scene analysis

├── README.md # Project documentation (this file)

**REFERENCES**

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