



IDEA-THON 1.0

# Basic Details of the team and Problem statement

## Problem Statement:

In traditional surveillance systems, manual monitoring by human operators leads to inefficiencies, delayed responses, and a lack of real-time detection and notification of suspicious activities.

There is a need for an AI-based intelligent camera decision-making system that can analyze video data in real-time, identify suspicious objects, gestures, gatherings, and notify users and nearby police stations with customizable response options.

Team Name: Code Quad

Team Leader Name: Aastha Prakash

Team Members' Names: Mehwish Khan

Anika Lohia

Jahanvi Singh

Institute Name: Shri Ramswaroop Memorial College of Engineering and Management

---

Theme Name: Open Innovation

# Solution Details:

## Solution Overview:

- Introduce an AI-based intelligent camera decision-making system.
- Emphasize real-time detection and notification of suspicious activities.

## Key Components:

- Surveillance Cameras
- AI and ML Algorithms
- Notification System

## Functionality:

- AI analyzes video data in real-time.
- Identifies suspicious objects, gestures, unusual gatherings, and criminal faces and also identifies specific words spoken.
- Notifies users and police stations with customizable response options.

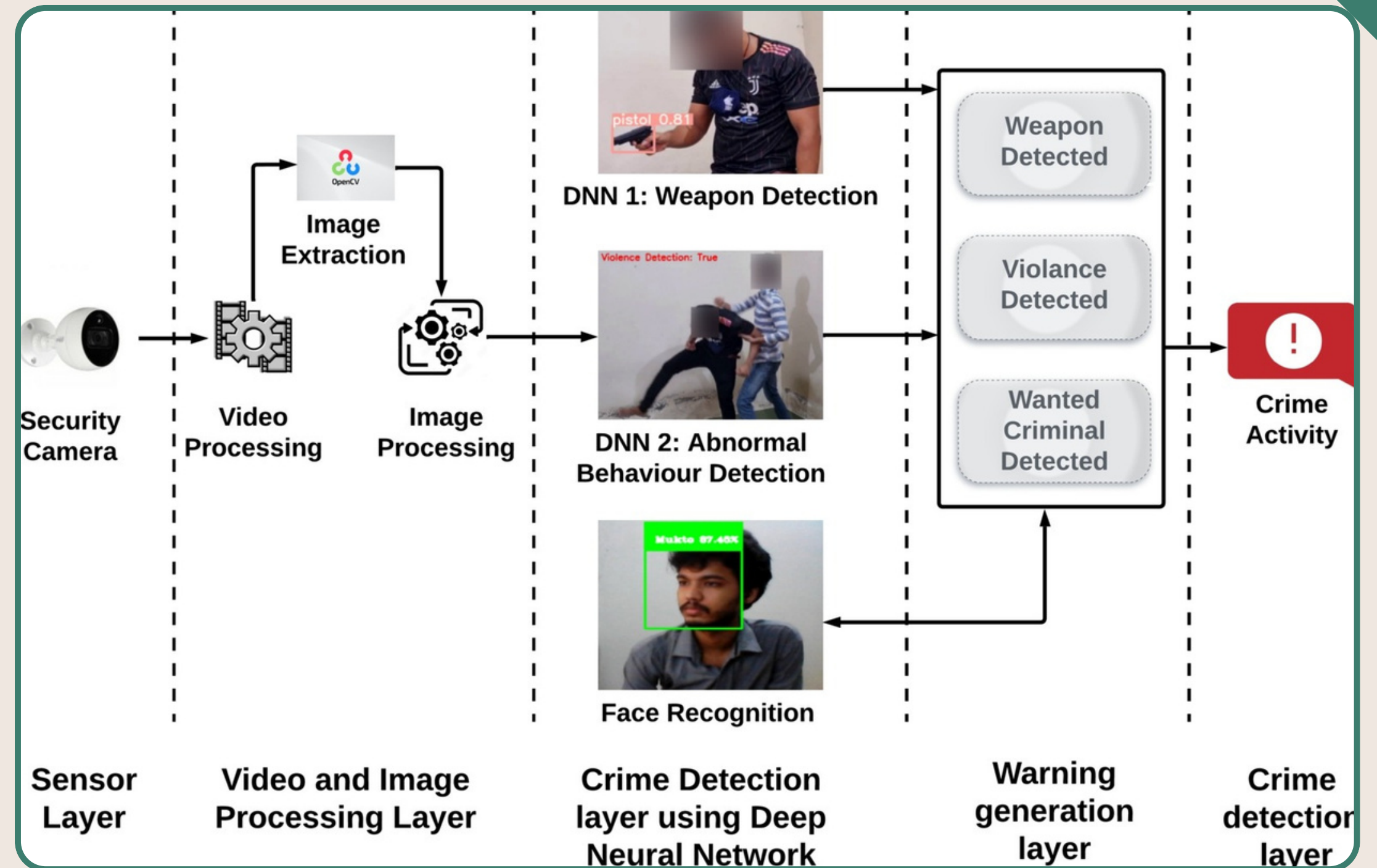
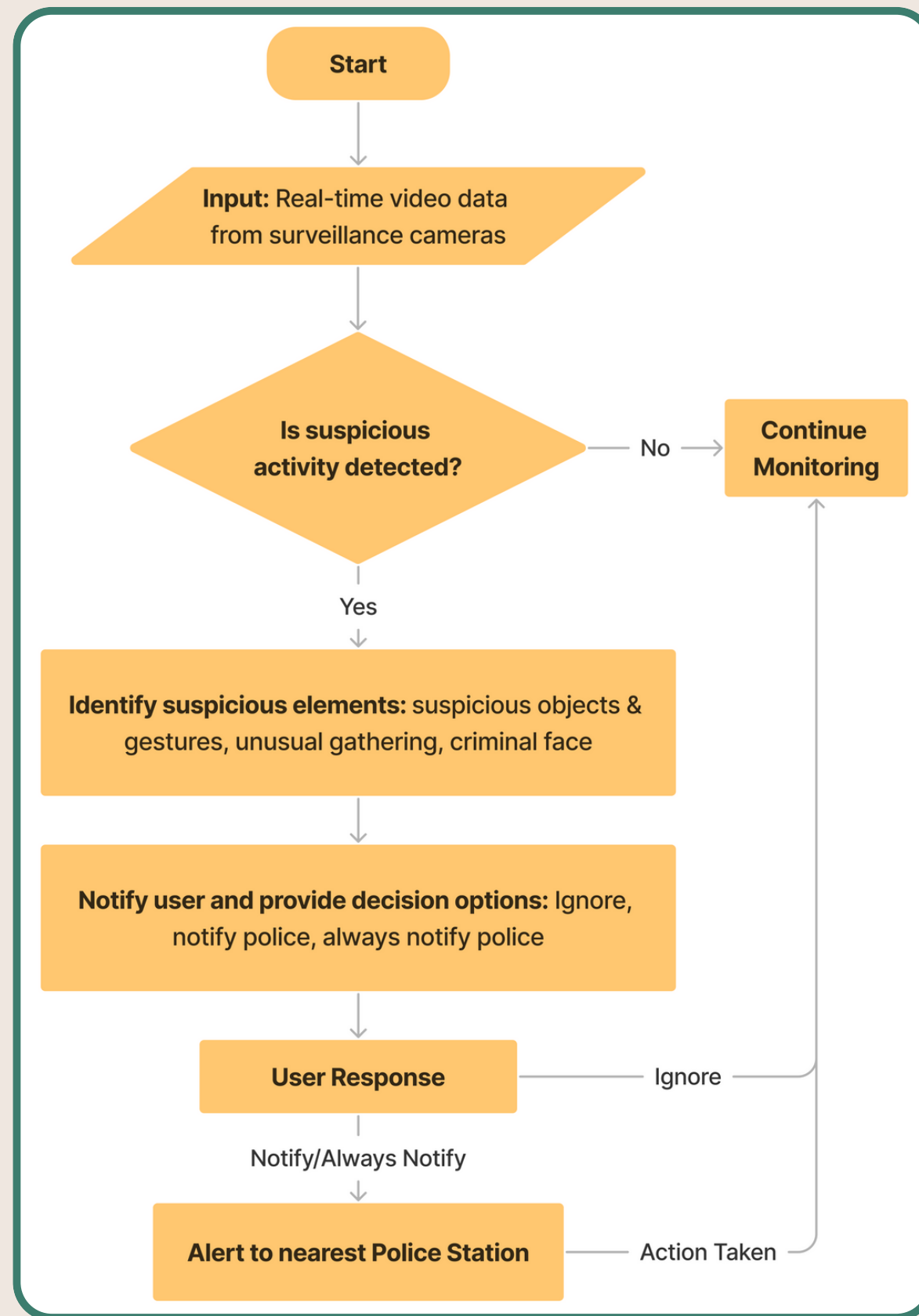
## Customizable Response:

- Users choose to ignore, notify the nearest police station, or enable automatic notifications for all suspicious activities.

## Technologies Used:



# Flowchart & Use case:



### **Implementation Plan:**

- Integrate surveillance cameras with AI & ML algorithms.
- Develop a user-friendly interface for notification options.
- Connect with police station systems for coordinated response.

### **Benefits:**

- Enhanced surveillance efficiency.
- Real-time threat detection.
- Faster response times to potential threats.
- Data-driven decision making.

### **Dependencies:**

- Availability of sufficient and diverse training data
- Access to Surveillance Infrastructure
- Integration with Police Systems
- Adequate technological infrastructure
- Compliance with privacy regulations and legal requirements

### **Show Stoppers:**

- Technological constraints
- Legal or compliance issues
- Resource Shortages