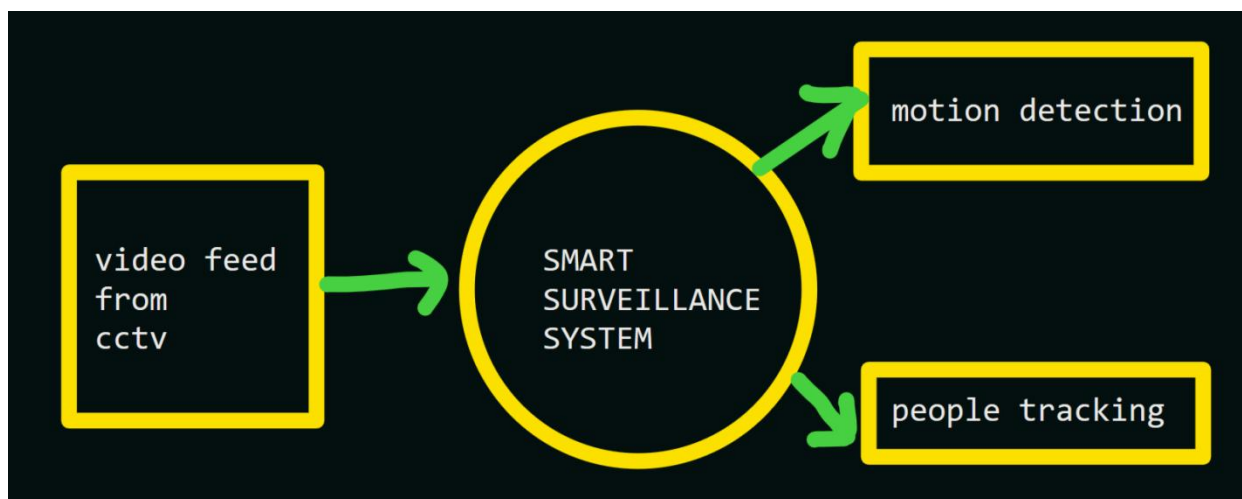


6. Appendices

6.1 Technical Documentation: A detailed technical document that describes the system architecture, algorithms, data flow, and system components.

- **Level 0 DFD:** The system has a single input, which is the video feed from the surveillance camera. The system has two main outputs: motion detection alerts and real-time people tracking.



- **Level 1 DFDs:**
 - **Motion detection alerts:** The video input is analyzed using OpenCV and motion detection algorithms. If motion is detected, the system sends an alert via Twilio to a designated recipient.