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(57) Abstract :
This project introduces an extension to conventional surveillance systems, enhancing their functionality by incorporating advanced features for threat detection and personnel monitoring. Leveraging the efficiency of the YOLOv5 object detection algorithm, the system can detect and localize thief masks and weapons in real-time video streams, enabling proactive security measures. Furthermore, a face recognition module is integrated to facilitate live webcam face-attendance, automating the identification and logging of individuals within the monitored area. This comprehensive approach to surveillance technology ensures heightened security measures and streamlined attendance monitoring processes in diverse environments. In response to the pressing need for enhanced security measures, this project presents a comprehensive extension to traditional surveillance systems. By leveraging the advanced capabilities of the YOLOv5 object detection algorithm, the system is equipped to detect and localize thief masks and weapons in real-time video streams. This proactive approach enables security personnel to swiftly respond to potential threats, thereby minimizing risks and ensuring the safety of the monitored area. Additionally, the integration of a face recognition module facilitates live webcam face-attendance, automating the identification and logging of individuals present within the surveillance environment. Through this holistic implementation of cutting-edge technologies, the project aims to provide a robust and efficient solution for addressing security challenges in various settings, from commercial establishments to educational institutions.

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