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(57) Abstract :  
 SURVEILLANCE WIZARD: INTELLIGENT REAL-TIME CCTV ANALYSIS SYSTEM WITH AUTOMATED THREAT DETECTION AND FACIAL RECOGNITION ABSTRACT The invention, "Surveillance Wizard," enhances traditional CCTV surveillance through advanced machine learning and computer vision techniques. It automates the detection of suspicious behavior, motion, and anomalies in real time, significantly reducing the manual effort required for video analysis. The system integrates a facial recognition module that continuously scans live footage against a database of known criminals, triggering instant alerts to law enforcement when a match is found. Additionally, it features a video summarization engine that condenses lengthy footage into concise clips highlighting critical events, along with customizable filters for efficient investigation. The user-friendly interface ensures multi-device accessibility, providing security personnel with real-time analytics and alerts. This seamless integration with existing infrastructure improves operational efficiency and enables quicker responses to potential threats, thereby enhancing overall security in both public and private spaces. The Surveillance Wizard offers a transformative approach to modernizing surveillance operations.

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