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(57) Abstract :

The present invention discloses an AI-based framework for intelligent video surveillance monitoring comprising a video input module (101), preprocessing unit (102), feature extraction engine (103), anomaly detection unit (104), alert generation module (105), and secure storage unit (106). The framework enhances real-time surveillance by integrating deep learning, anomaly detection, and secure data management. It ensures scalability, adaptability, and privacy preservation, enabling reliable monitoring across diverse environments such as airports, hospitals, and smart cities. This invention reduces manual workload, enhances situational awareness, and improves overall security effectiveness.

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