Smart Crowd Security Surveillance

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Abstract: *In the context of large-scale events like the Kumbh Mela, this system offers significant benefits. It enhances public safety by monitoring massive crowds, quickly detecting potential risks such as stampedes or overcrowding. The AI-driven analysis can also help manage crowd flow and prevent security breaches, ensuring a smoother and safer experience for pilgrims. This comprehensive system stands at the forefront of intelligent crowd management, contributing to more secure environments in high-density gatherings like the Kumbh Mela. The AI models are trained to recognize abnormal crowd behavior, such as sudden movements, overcrowding, or potential security incidents. The system's real-time alerts empower security personnel to respond swiftly to emerging situations, thus improving overall public safety. The proposed real-time AI- enhanced crowd surveillance system with big data analytics represents a holistic approach to urban security, leveraging cutting-edge technologies to enhance situational awareness and response capabilities. By amalgamating the strengths of AI and big data, this system stands at the forefront of intelligent crowd monitoring, contributing to the creation of safer and more secure urban environments.*

Keywords: Artificial Intelligence, surveillance system, real-time alerts, big data