AI-Based Verbal Harassment And Physical Violence Detection System: A Survey

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Abstract: *The growing need for public safety has accelerated the research in the field of in- telligent surveillance systems that are powered by AI. Traditional CCTV systems are heavily dependent on constant human monitoring, which can be time-consuming and labour-intensive and error-prone, particularly if large amounts of video data are to be analysed. Recent devel- opments in computer vision, deep learning, and audio analysis have made it possible to auto- matically detect violence, harassment and other suspicious activities in real-time. Techniques such as object detection, human action recognition, pose estimation, speech analysis and multi- modal learning help to greatly enhance the accuracy and reliability of behavior understanding in surveillance environments. These technologies enable systems to interpret both the visual and auditory information more effectively..*

Keywords: Action recognition, AI Surveillance, Audio analysis, Computer Vision, Deep learning, Harassment Detection, Intelligent surveillance, NLP, Object detection, Speech analysis

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