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(51) International classification	:G06K 9/00, G06V 10/764, G06K 9/62, G06N 3/08, G06V 10/774	(71) <b>Name of Applicant :</b> <b>1)Dr Poornima Raikar</b> Address of Applicant :Department of Computer Science AIML KLS VEDIT Haliyal Karnataka India
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(57) Abstract :

The invention titled "Crowd Sense: A Real-Time System for Crowd Analytics" provides a lightweight and efficient method for automatically detecting and analyzing people in a live video stream. The system captures video through a camera and uses the MobileNet-SSD deep-learning model to identify individuals in real time. A Haar Cascade classifier is used to detect faces, and a GenderNet model classifies detected faces as male or female. Children are identified using a simple size-based comparison of bounding boxes. The system calculates live statistics such as total crowd count, gender distribution, and child presence. These results are sent to a web-based dashboard through Flask and SocketIO, allowing users to view live video with demographic information. An optional feature enables automatic selection of advertisements based on the detected crowd composition. The invention operates efficiently on standard computers without requiring GPU hardware, making it useful for malls, campuses, public places, and other environments where real-time crowd monitoring and analytics are needed.

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