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(57) Abstract :
The present invention discloses an AI-based tool (100) for real-time detection of human emotions using multimodal sensors (101) capturing facial, speech, and physiological signals. Preprocessing unit (102) synchronizes inputs, while feature extraction layer (103) derives emotion-specific markers. An AI classifier (104) fuses data to identify emotions with high accuracy. Decision unit (105) contextualizes outputs, and interface (106) provides results in real-time. A secure data module (107) ensures privacy. The invention enables scalable, adaptive, and privacy-preserving emotion recognition for healthcare, education, entertainment, and customer service applications.

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