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(57) Abstract :

This system presents a shiny glass innovation that will help visually impaired people by analysing their surroundings through cameras and computer vision algorithms. The glasses provide real-time audio feedback, allowing users to move safely and confidently. They can identify objects, recognize obstacles, read written text using Optical Character Recognition (OCR), and distinguish currency for transactions. By fostering situational awareness, the device addresses challenges like navigation, reading, and safety hazards. Moreover, the glasses are connected to a mobile application where smartphone operation is possible via voice commands to access several features. The wearable gadget encourages independence by enabling its users to read, study, and move about in public or at home with full confidence. Future developments will aim at increasing the accuracy of object detection, hazard detection, and GPS integration for location tracking purposes.

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