IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 9, April 2025
Impact Factor: 7.67

Hand Gesture Based Presentation Control System

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Abstract: *The Hand Gesture-Based Presentation Control System uses Python, MediaPipe, and OpenCV to enable touch-free slide navigation through real-time gesture recognition. It enhances user experience, accessibility, and hygiene in academic, corporate, and remote settings. By detecting and classifying hand gestures, the system triggers slide changes, offering an intuitive and modern alternative to traditional controls. The system can accurately track hand landmarks and recognize predefined gestures in real- time. Common gestures, such as swiping left or right, are mapped to actions like moving forward or backward in a slideshow. The camera continuously captures hand movements, and the gesture recognition model processes this input to determine the corresponding command*

Keywords: Gesture Recognition, Computer Vision, Presentation Control, hand Gestures, Gesture recognition model

DOI: 10.48175/568