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(57) Abstract :

The present invention relates to a system and method for enhancing virtual reality (VR) interactions through intelligent automation powered by machine learning (ML). The system analyzes real-time user interaction data, including hand gestures, body movements, gaze direction, and voice inputs, to predict user preferences and behaviors. Using this analysis, the system dynamically adjusts virtual objects, user interfaces, and environmental attributes, such as lighting and sound, to optimize the immersive experience. Key features include automated object manipulation, personalized assistance via virtual agents, and reinforcement learning to improve adaptability over time. The invention is compatible with a range of VR hardware and facilitates a seamless, intuitive, and personalized user experience.

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