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(57) Abstract :

The invention discloses an augmented reality interface comprising a user interface module (101), an AR rendering engine (102), a data security layer (103), an AI interaction module (104), and a cloud-based collaboration hub (105). The system enables immersive, secure, and persistent remote collaboration by integrating multi-device compatibility, gesture-based controls, voice commands, and blockchain-backed data security. The interface allows real-time 3D visualization and interaction, enhancing efficiency and communication across industries such as healthcare, education, and engineering, thereby creating a scalable and adaptive collaboration platform.

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