1. Gesture-based virtual painting in 3D is an innovative way of creating digital art using hand or body movements instead of traditional tools.
2. It makes use of computer vision and sensor technologies to track user gestures in real-time.
3. With this system, the user's hand acts as a virtual brush to paint in a 3D environment.
4. The technology allows for free-flow artistic expression without the limitations of physical brushes and canvases.
5. It provides an immersive experience by combining human gestures with digital creativity.
6. 3D virtual painting can be integrated with VR/AR headsets for enhanced visualization.
7. The system interprets gestures such as hand position, movement, and speed to create strokes in 3D space.
8. It finds applications in digital art, gaming, design, and interactive learning.
9. Gesture recognition algorithms play a key role in ensuring accuracy and responsiveness.
10. This approach bridges art and technology, enabling new creative possibilities for artists and learners.

INTRODUCTION: