Hand Gesture Controlled Presentation Viewer with AI Virtual Painter

It allows users to navigate through presentation slides and draw on them using hand gestures, without the need for a mouse or keyboard. The system recognizes five specific hand gestures for different functions:

1. Move to the next slide
2. Move to the previous slide
3. Display a pointer
4. Draw on the screen
5. Erase the drawing
6. Highlight Text
7. Stop Presentation
8. Zoom In/Out
9. First slide and Last slide having a specific gesture to move
10. Undo/Redo
11. Save the Current Slide or Drawing

Whiteboard feature in the form of the AI Virtual Painter, which allows users to draw on the screen using hand gestures. This virtual whiteboard functionality mimics the traditional chalk-and-board method, providing an interactive and intuitive drawing experience.

1. Can draw on your System screen based on your Index finger movement
2. Can track your hand in real-time
3. Change colour for your brush
4. Change your brush size
5. Shape drawing (circles, squares, etc.).
6. Save your beautiful creations by pressing S.
7. Clear for a fresh screen by pressing C.

User Authentication (Register/Login):

- Users can register and login by providing a username.

PPT Upload (Drag and Drop):

- Users can upload their PPT via file input or drag-and-drop area.

Gesture-based slide navigation Whiteboard and Drawing:

- Users can draw on the whiteboard, change brush color and size, and interact with the slide.

Save the Slide with Whiteboard Annotations:

- Users can save the slide with whiteboard annotations

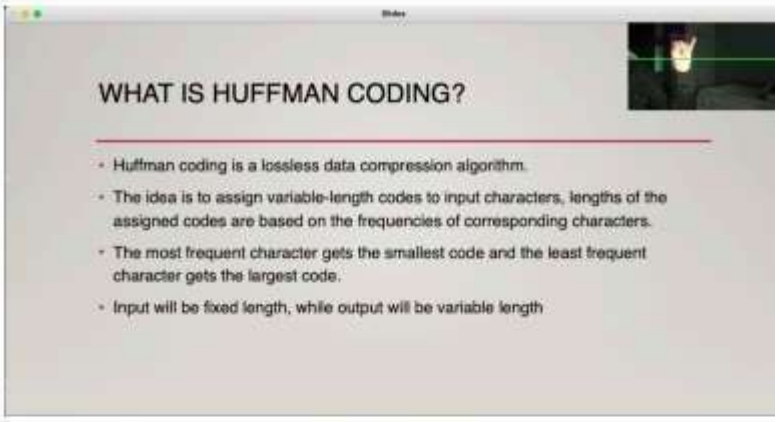


Fig 2. Move to the next slide

Fig 3. Move to the previous slide

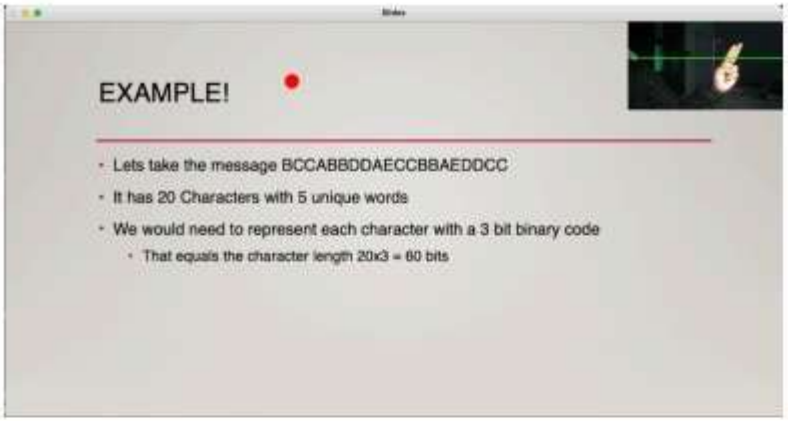


Fig 4. To show Pointer

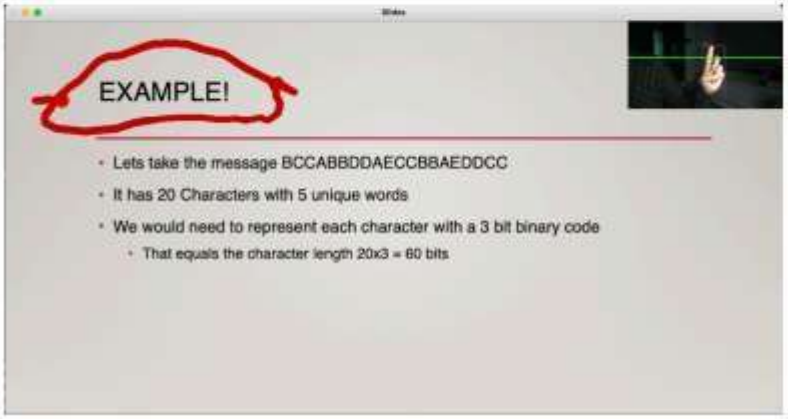


Fig 5. To draw on the slides

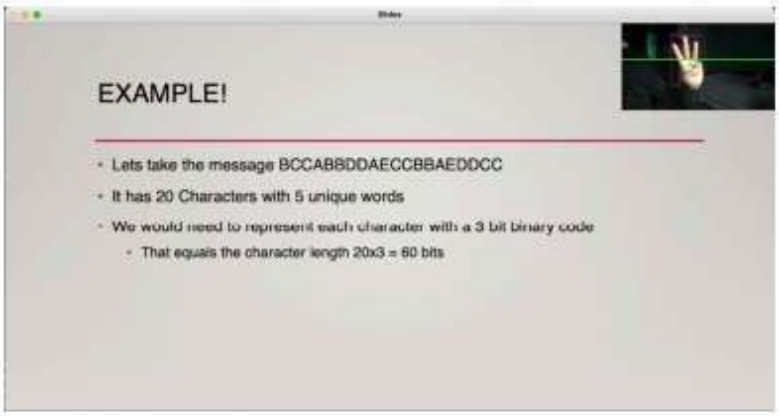


Fig 6. To erase the drawing

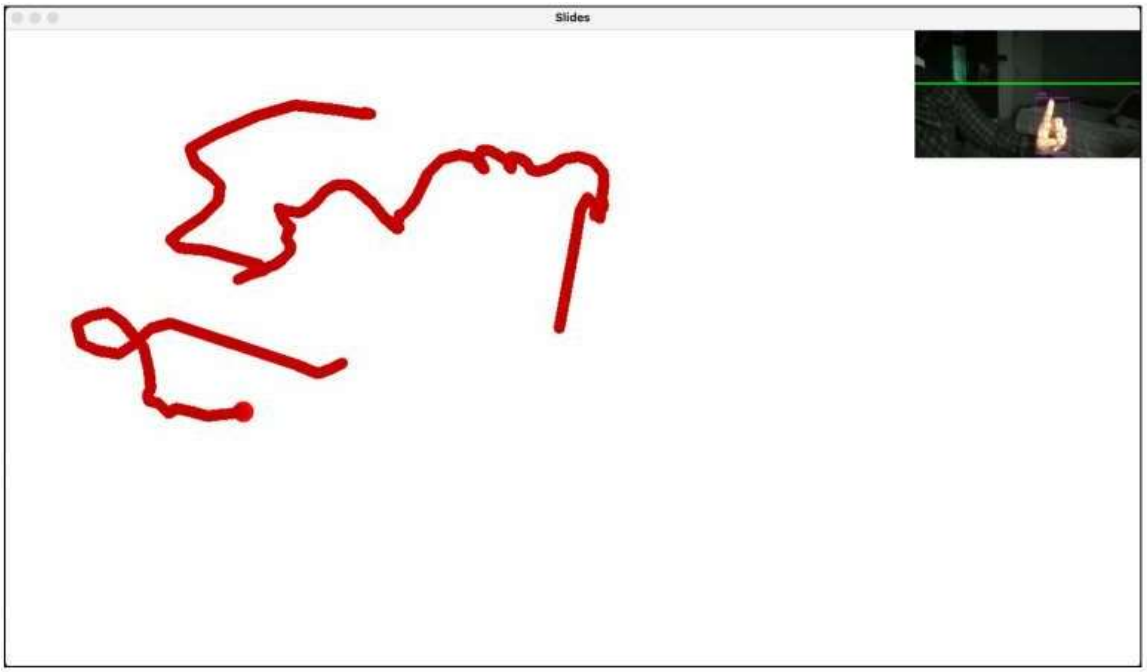
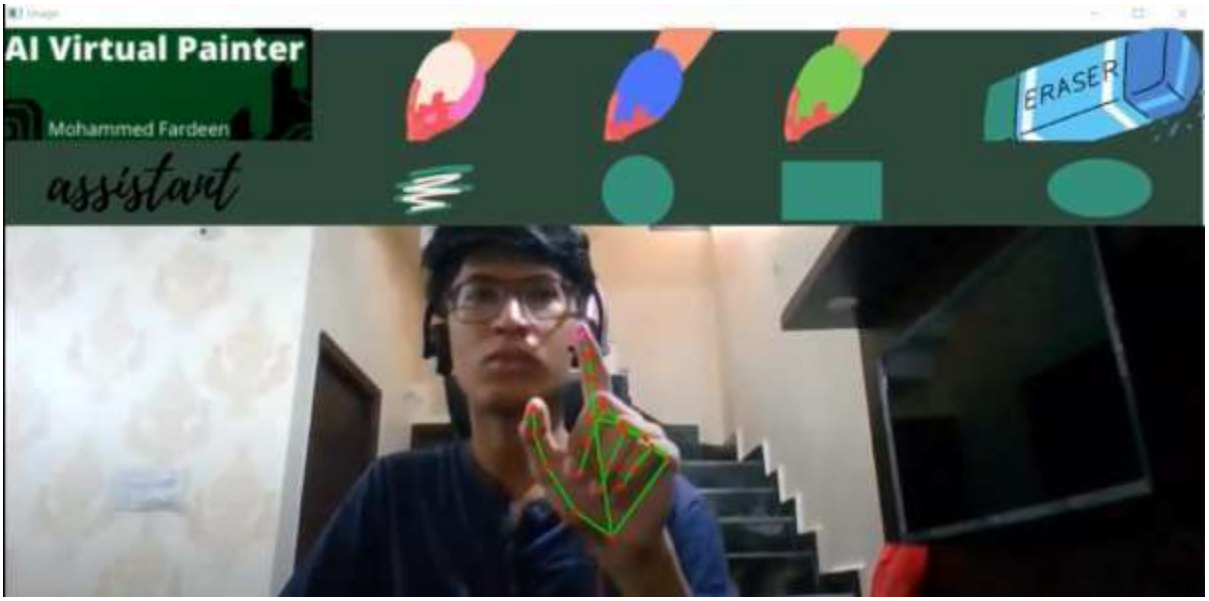


Fig 7. Whiteboard


AI Virtual Painter
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