Gesture Driven Air Canvas Using Hand Pose Estimation

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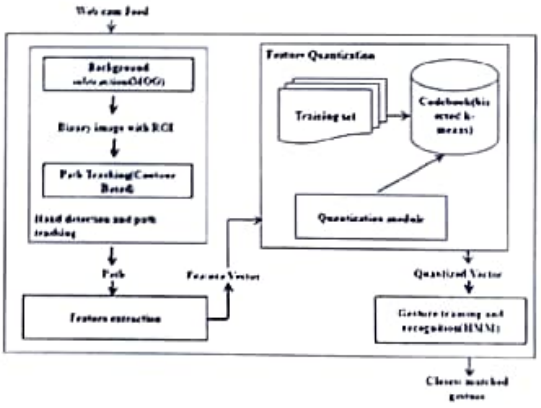
Abstract

The creation of a gesture-driven interface for hand pose estimation is the subject of a thorough inquiry in this research project. The main goal is to use cutting-edge machine learning techniques to improve the accuracy and speed of existing solutions. Real-time hand gesture recognition and interpretation will be possible with the approach this study proposes, enabling more intuitive and natural interactions with digital gadgets. The main goals of this research project are to develop and implement a reliable hand position estimation system.

Architecture Diagram



Significance of the Project

In terms of creative expression and human-computer interaction, the project "Gesture Driven Air Canvas Using Hand Pose Estimation" has a lot of potential. It allows users to paint, draw, and interact with digital content naturally and intuitively using only hand gestures by utilizing sophisticated hand pose estimation technology.

Conclusion

An interactive air canvas that reacts to hand gestures is the goal of the Gesture Driven Air Canvas project. The project detects the position and orientation of the user's hand using OpenCV's hand pose estimation, and then utilizes this data to control the air canvas.

Conference/Journal Publication Details (If Any)

Application In Progress