

Voice Assistant and Virtual Mouse using Different AI Techniques and ML

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Abstract: *This venture advocates a Human PC Cooperation strategy where cursor development can be controlled through ongoing camera by utilizing human hand stances acknowledgment. This strategy is an option in contrast to current procedures, which incorporate physically squeezing buttons or utilizing actual PC mouse. Instead, it manages various mouse events through camera and computer vision software and can perform any action that a standard computer mouse can. The Virtual Mouse color recognition software will continuously collect photos taken in real time and process them through a number of conversions and filters. Whenever everything is changed over, the application will utilize picture handling to extricate directions of determined variety position from changed over outlines. The process then looks at a list of color combinations, each of which corresponds to a specific set of mouse actions, and compares the current color schemes in the frames. On the off chance that the ongoing variety conspire matches, the application will play out the mouse order, which will be changed over into a genuine mouse order on the user's PC. Notwithstanding that creators have likewise fostered a voice right hand to further develop client efficiency by overseeing routine errands of the client and by giving data from online sources to the client since voice colleague is easy to utilize. The objective of this paper is to improve the virtual assistant's performance. In this way, what precisely is a remote helper. Software that understands natural language voice commands and can carry out tasks on your behalf is known as application software, which is also referred to as AI assistants or digital assistants. They are also referred to as virtual assistants. What is the role of a virtual assistant? The list of tasks that virtual assistants can carry out that you can carry out on your own smartphone or personal computer is constantly growing. Meeting scheduling, message delivery, and weather monitoring are just a few of the impressive tasks that virtual assistants typically carry out. Google Assistant and Cortana, two examples of previous virtual assistants, were limited in that they could only perform searches and were not entirely automated. To keep the song's control function intact, these engines, for instance, lack the ability to play and pause the song. They can only have the module to play and search for songs. In order to enhance the project's functionality, we are currently working on an automated Google, YouTube, and numerous other new tasks. Now, a virtual mouse that can only be used to control the cursor and click has been added to make the process easier.*

Keywords: Cricket Analytics; Detection, Gesture, Mediapipe, OpenCV, python

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