
How to Use MartialVision

Step 1: Set Up the Smart Gloves

1. Wear the provided smart gloves.
 2. Start Recording:
 - Press the A button (left-side button) on the left glove to begin capturing your movements.
 3. Play the tutorial video of the martial arts move or technique you want to practice, and perform it while the gloves track your motions.
 4. Stop Recording:
 - Press the B button (right-side button) on the left glove to end the recording.
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Step 2: Transfer Data to Your Computer

1. Connect the Gloves:
 - Use a USB cable to link the gloves to your computer.
 2. Download the Data Files:
 - Locate the file named MY_DATA.HTM on the glove's storage.
 - Open the file in your browser and save the corresponding CSV data to your computer.
 3. Rename the Files:
 - Rename the left glove's CSV file as leftGlove.csv.
 - Rename the right glove's CSV file as rightGlove.csv.
 4. Move the Files:
 - Place both renamed CSV files into the MartialVision program folder to prepare for analysis.
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Step 3: Use the Program

1. Upload a Tutorial Video:
 - Select and upload the video of the martial arts move or technique you are learning.
2. Record Your Performance:
 - Perform the moves while wearing the gloves, which will capture your motion data.
3. Analyze Your Results:

- **MartialVision processes your glove data and compares it with the movements in the uploaded tutorial using computer vision.**
 - **It calculates an average accuracy score based on your performance.**
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Step 4: Get Feedback and Improve

- 1. Overall Accuracy Score:**
 - **Receive a numerical average difference score that measures how closely your performance matches the tutorial.**
 - 2. Detailed Performance Insights:**
 - **The system provides feedback on areas needing improvement, such as precision, timing, or technique.**
 - **Visual feedback (e.g., charts or heatmaps) helps you focus on specific corrections for your next practice session.**
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