

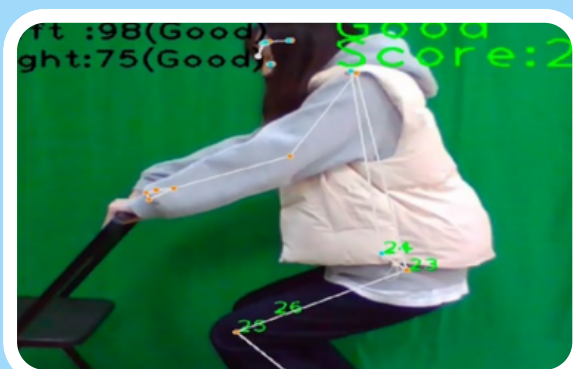
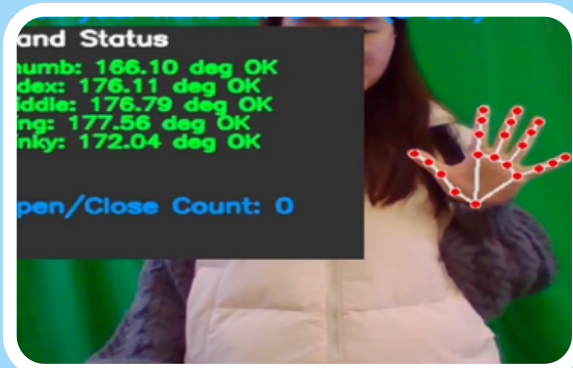
先「銀」一步 AI智能復健又復能

📌 Research motivation

Taiwan will become a super-aged society in 2025, with more than **20%** of the population aged 65 and above. In addition, the elderly will have difficulty going to medical institutions for rehabilitation due to mobility problems.



🦾 AI action monitoring:
Perform rehabilitation actions through MediaPipe & OpenCV to detect whether the actions are correct.



🌐 Setting up website and message board:
The website provides operation manuals, demonstration videos, data charts, and a message board for exchanging rehabilitation experiences.



📊 Data record:
Establish a database to analyze the rehabilitation progress of the elderly and remind them to continue exercising.

角度與顏色對應關係						
透過顏色區分恢復程度，用於追蹤手部功能改善的進展						
● 黑色: 角度 < 150°						
● 紅色: 150° < 角度 < 170°						
● 綠色: 170° < 角度 < 180°						
ID	完成時間	攝圖次數	兩指角度	食指角度	中指角度	無名指角度
完全伸展 180 度						
16	2025-04-28 16:56:10	16	160.78	175.94	174.48	171.32
15	2025-04-28 16:56:09	15	170.04	166.18		
14	2025-04-28 16:56:08	14	150.09	158.87		
13	2025-04-28 16:56:07	13	164.03	179.04	177.12	172.70
12	2025-04-28 16:56:06	12	157.48	167.45	166.34	162.94

👤 Sustainable Development Goals:
Corresponding to SDG 3 Good health and well-being and SDG 4 Quality education, it promotes health rehabilitation and elderly learning.

