

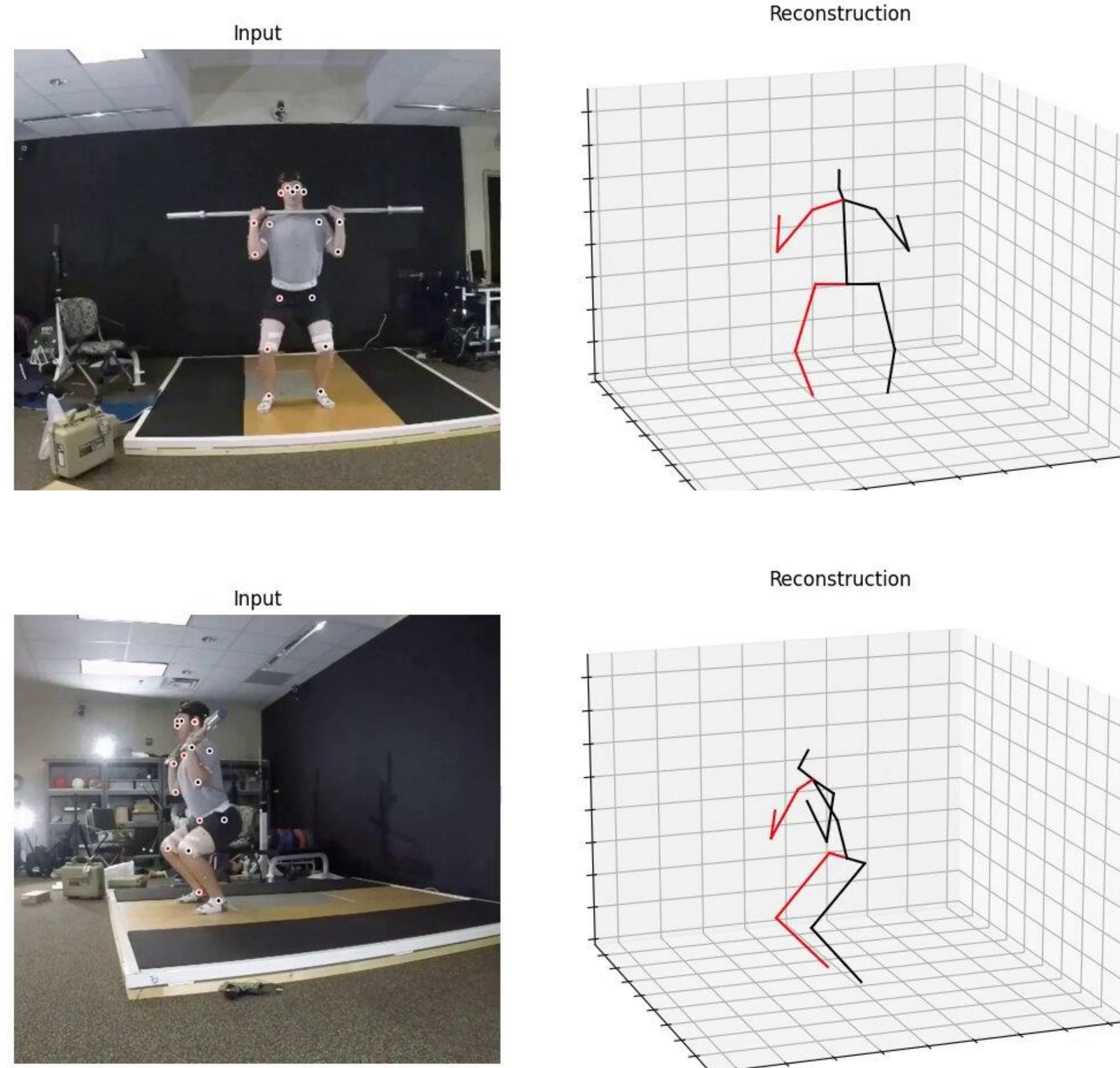
# CP-89 3D Information Extraction from Physics Exercise Videos

## INTRO

- The motivation of this project is to provide a mobile solution that will be able to extract 3D skeletons from athletes on the field without the use of a dedicated immobile setup.
- The goal of the project is to extract 3D information similar to that from a dedicated setup with the use of video captured on a device as portable as a cellphone.

## METHODS

- We use packages available on GitHub to evaluate different physics exercise videos. Then, we render the input into a final result which is a 3D skeleton built from 3D keypoints.



## RESULTS

- The extracted data can be used for further calculations such as, angle of the joint movements, velocity, and speed. These calculations can help athletes to reduce the risk of injury and improve their performance.

A software package can  
turn you into a **digital  
skeleton.**



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