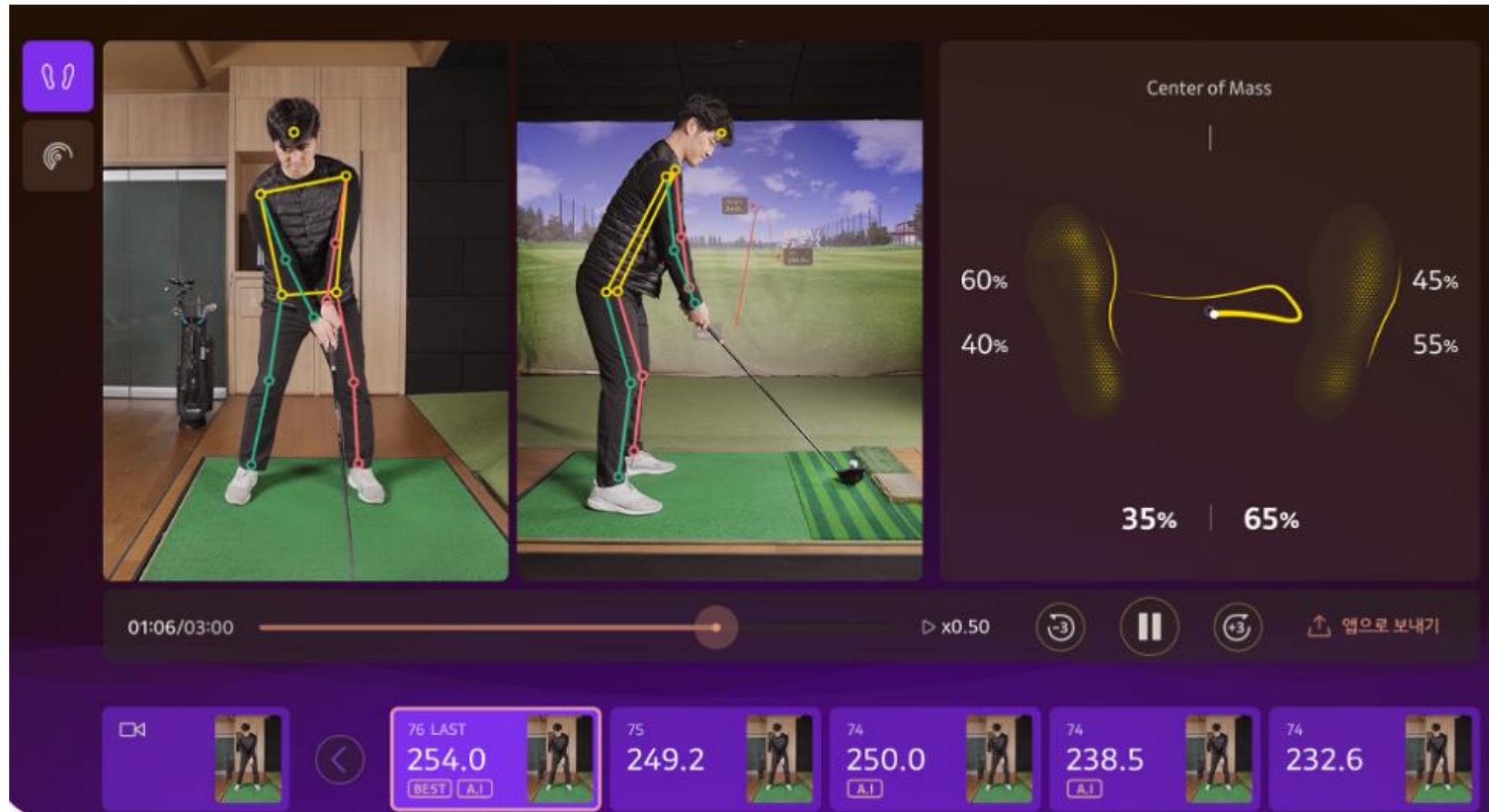


자세 추정 (Pose Estimation)

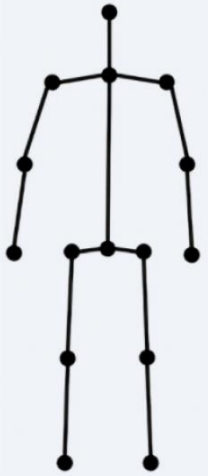


자세 추정 (Pose Estimation)

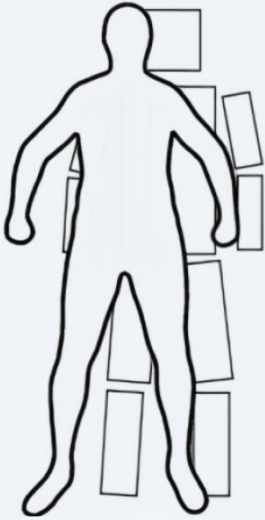


자세 추정 (Pose Estimation)

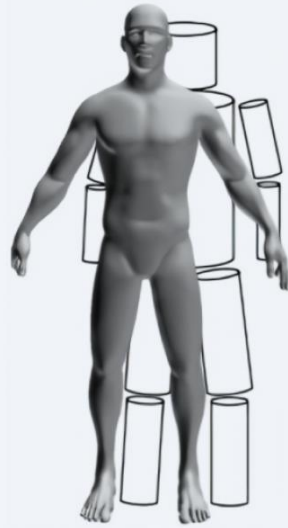
Human Body Models



Skeleton-based
model



Contour-based
model

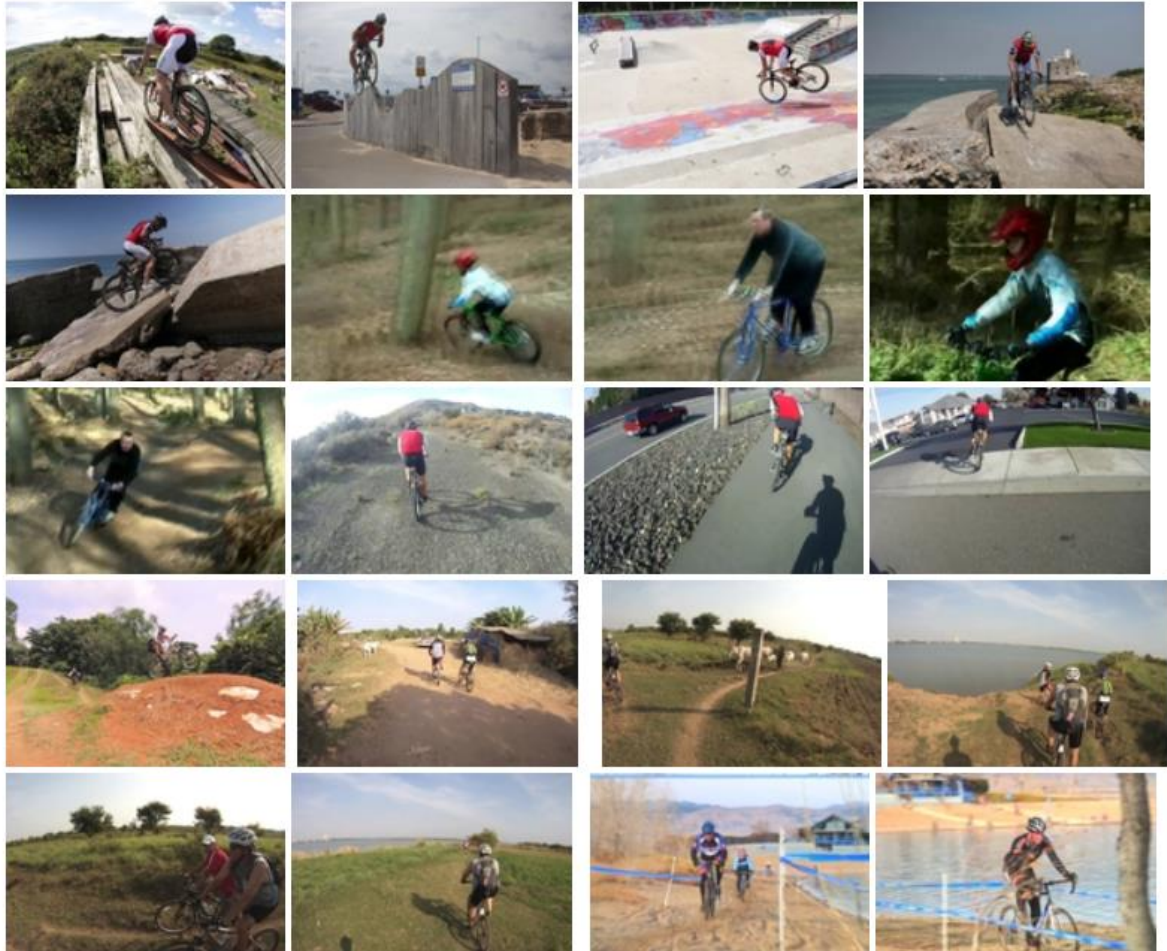


Volume-based
model

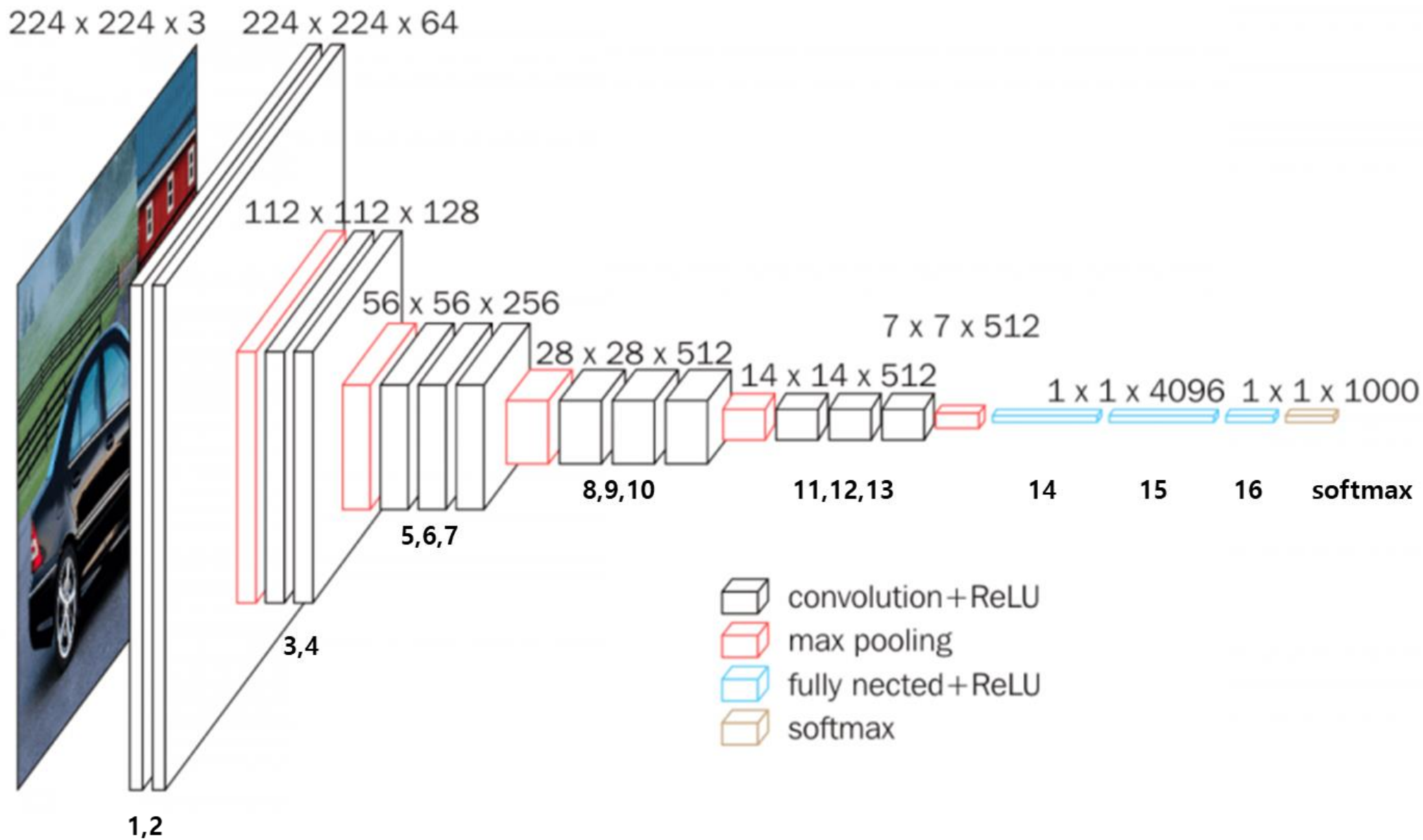


MPII Model

<http://human-pose.mpi-inf.mpg.de/>

Activity Categories	Activities	Images
bicycling	bicycling, BMX (112) - 454	
conditioning exercise	bicycling, general (75) - 841	
dancing	bicycling, mountain (255) - 840	
fishing and hunting	bicycling, racing and road (186) - 842	
home activities	unicycling (34) - 200	
home repair		
inactivity quiet/light		
lawn and garden		
miscellaneous		
music playing		
occupation		
religious activities		
running		
self care		
sports		
transportation		
volunteer activities		
walking		
water activities		
winter activities		

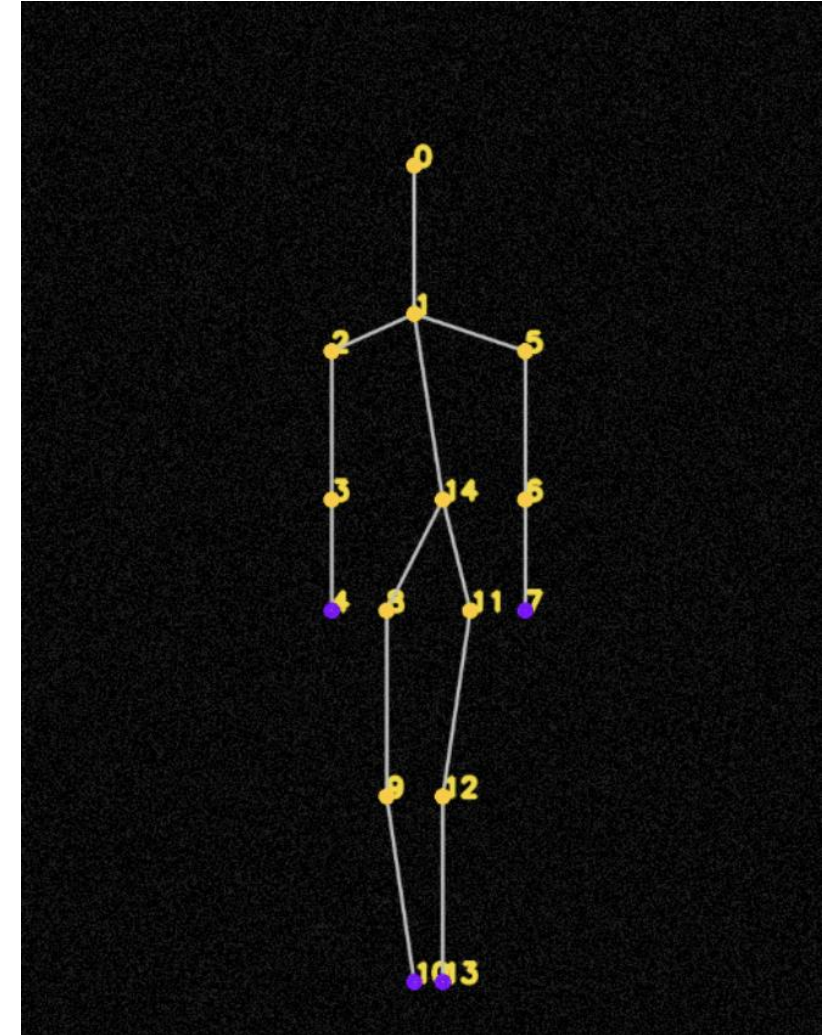
MPII Model



MPII - Body Points

0	Head
1	Neck
2	Right shoulder
3	Right elbow
4	Right wrist
5	Left shoulder
6	Left elbow
7	Left wrist

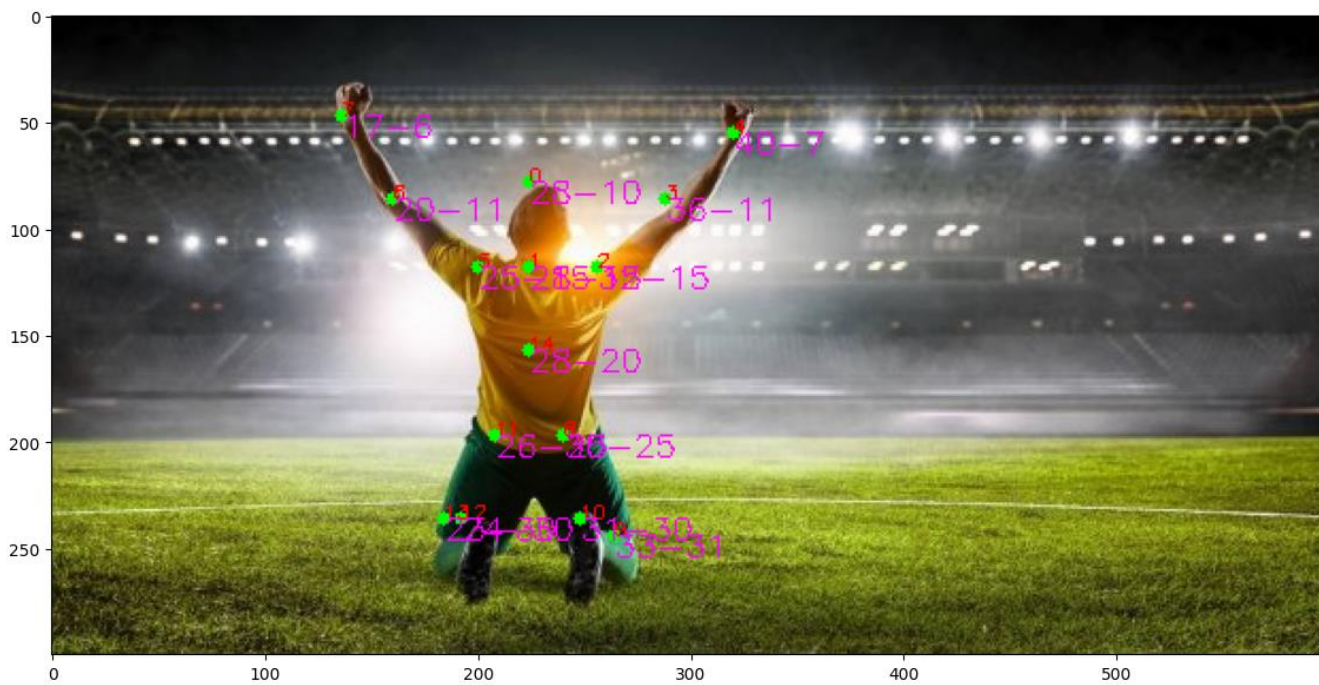
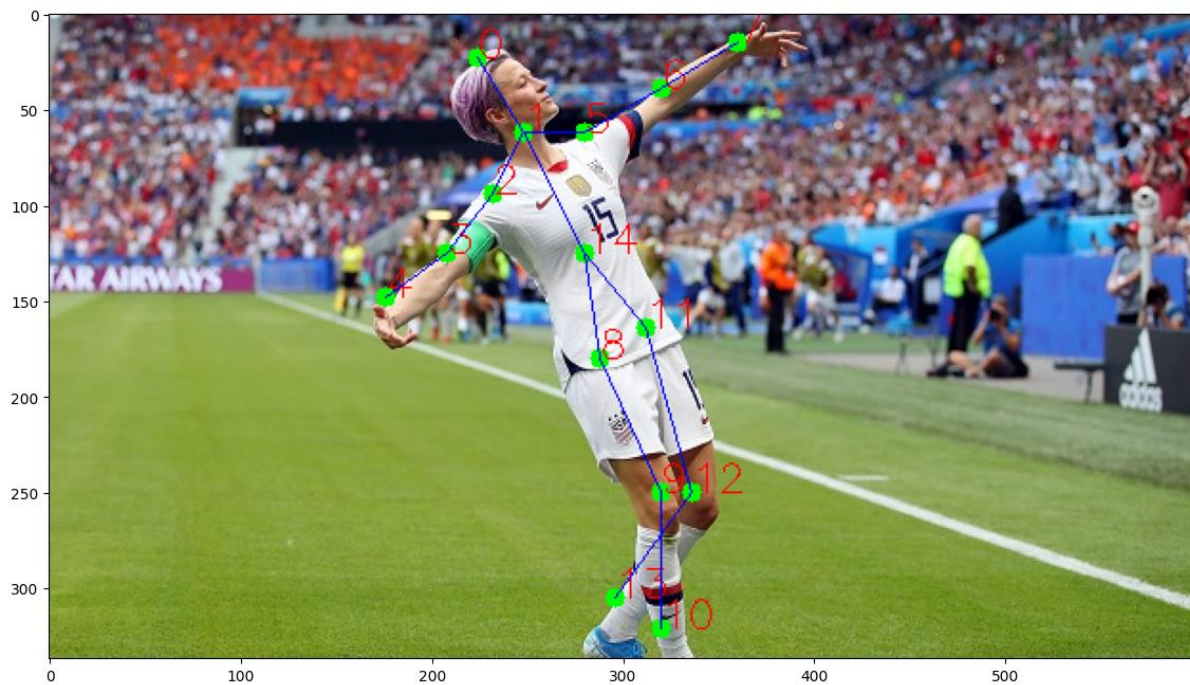
8	Right hip
9	Right knee
10	Right ankle
11	Left hip
12	Left knee
13	Left ankle
14	Chest
15	Background



자세 추정 실습



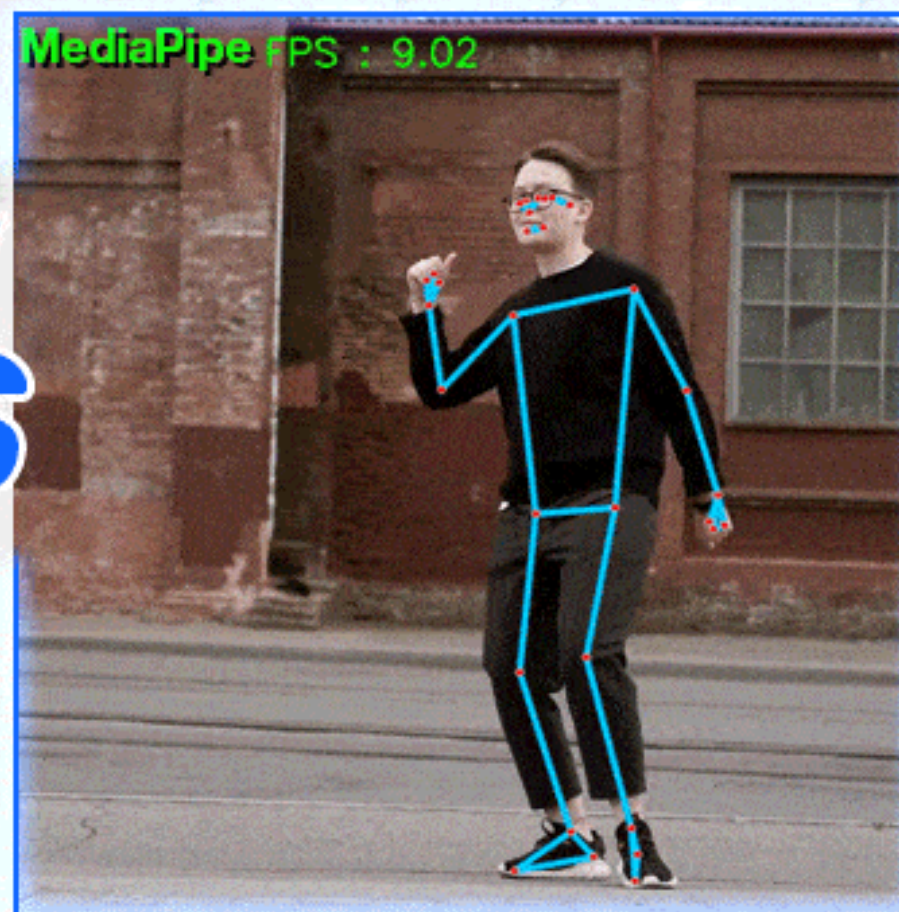
pose_estimation.ipynb



HUMAN POSE ESTIMATION

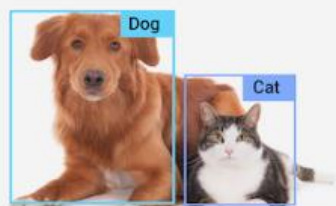


VS



MediaPipe

<https://mediapipe-studio.webapps.google.com/>



Object Detection
Track and label objects in images.

[See demo](#)

[Customize](#)

Flamingo 95%



Image Classification
Identify content in images.

[See demo](#)

[Customize](#)



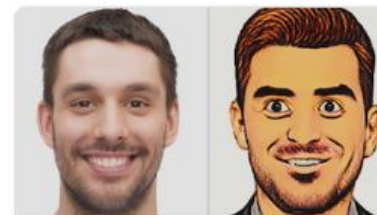
Image Segmentation
Locate objects and create image masks with labels.

[See demo](#)



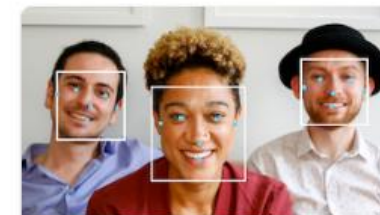
Image Embedding
Convert images into embedding vectors.

[See demo](#)



Face Stylization
Stylize faces in an image.

[See demo](#)



Face Detection
Detect faces in real time.

[See demo](#)



Interactive Segmentation
Segment the object of interest in an image.

[See demo](#)

Thumbs up 63%



Gesture Recognition
Identify and recognize hand gestures.

[See demo](#)

[Customize](#)



Hand Landmark Detection
Detect hand landmarks.

[See demo](#)



Face Landmark Detection
Detect face landmarks and blendshape scores in real time.

[See demo](#)



Pose Landmark Detection
Identify key points on the body in real time.

[See demo](#)

THANK YOU

kgpark88@gmail.com