



Walking Gait analysis



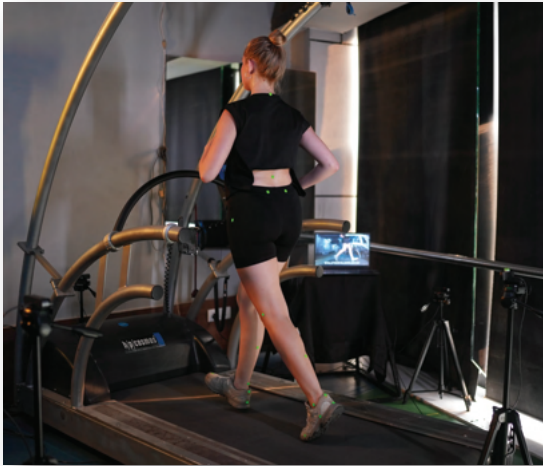
Bike Fitting Analysis



Network Analysis:

WORKFLOW

A 3 step process to complete a biomechanical assessment

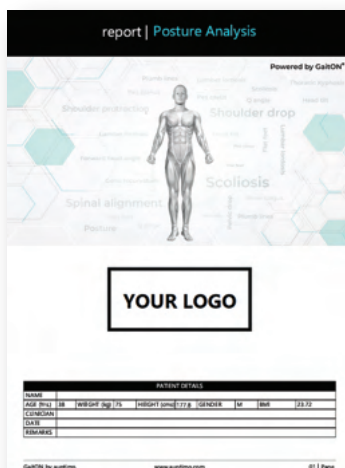


1. CAPTURE

Capture the patient's motion from multiple views using cameras.

2. ANALYZE

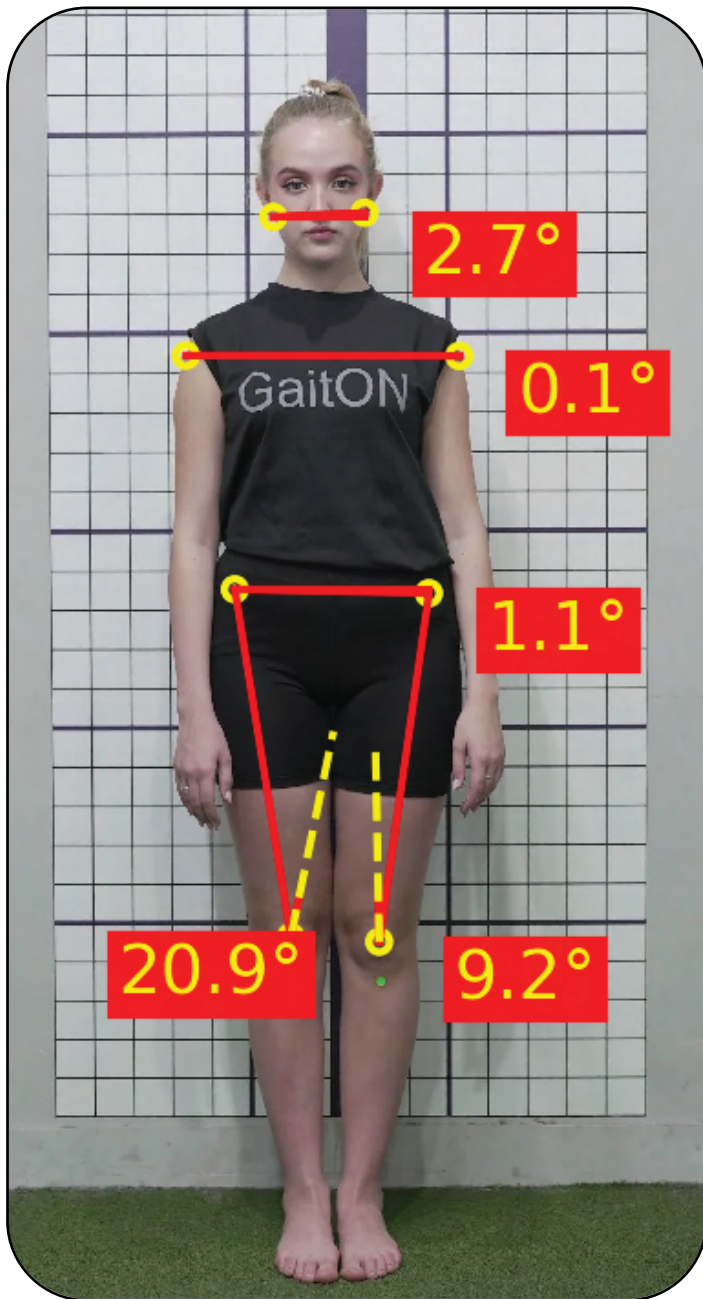
Analyse the motion using GaitON's inbuilt protocols.



3. REPORT

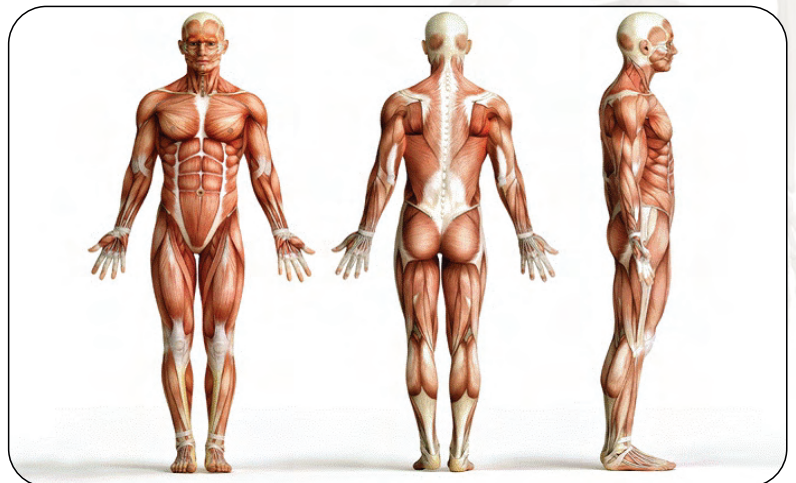
Export the analysis results to well organised and print ready reports.

STANDING POSTURE ANALYSIS



GaitON's posture analysis protocol identifies key postural deviations from multiple views & exports all data to a report.

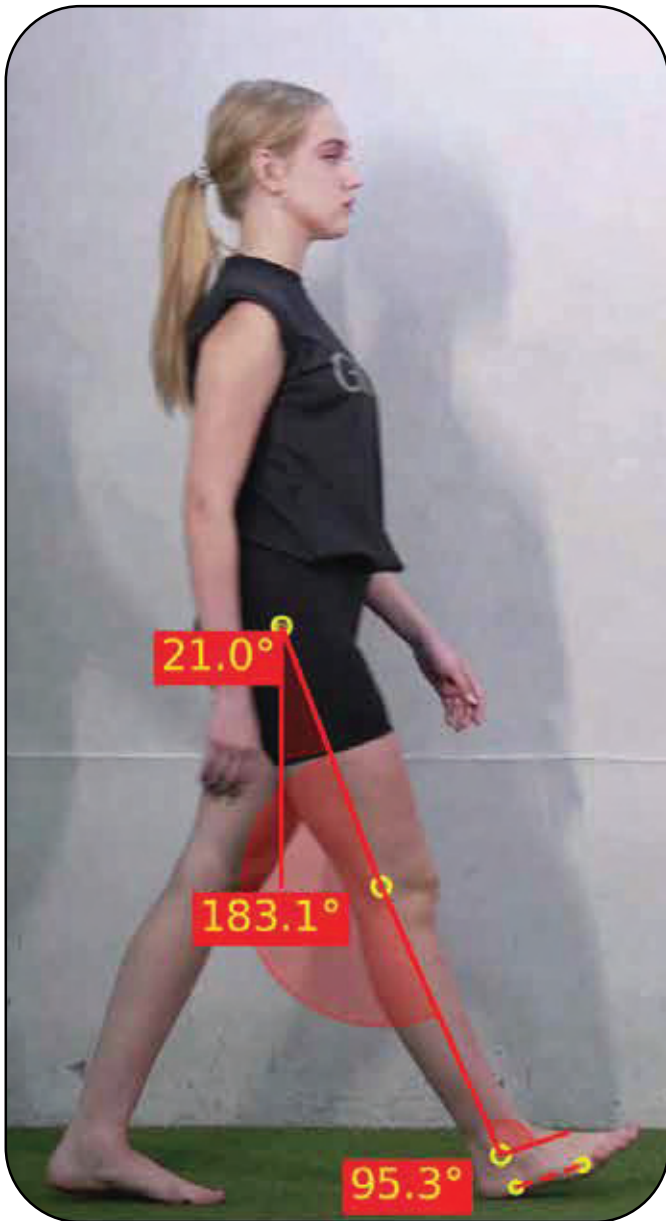
VIEWS ANALYZED



ANTERIOR . POSTERIOR . LATERAL

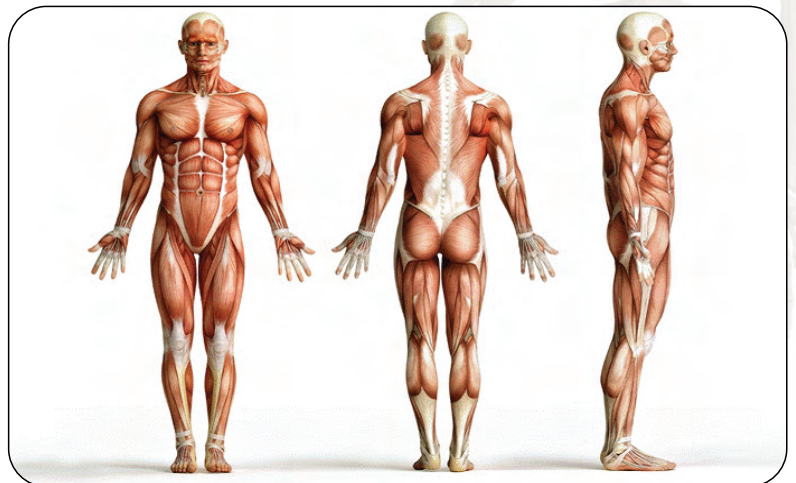
TIME PER ANALYSIS
5 MINUTES

WALKING GAIT ANALYSIS



GaitON's gait analysis protocol identifies key walking deviations from multiple views & exports all data to a report.

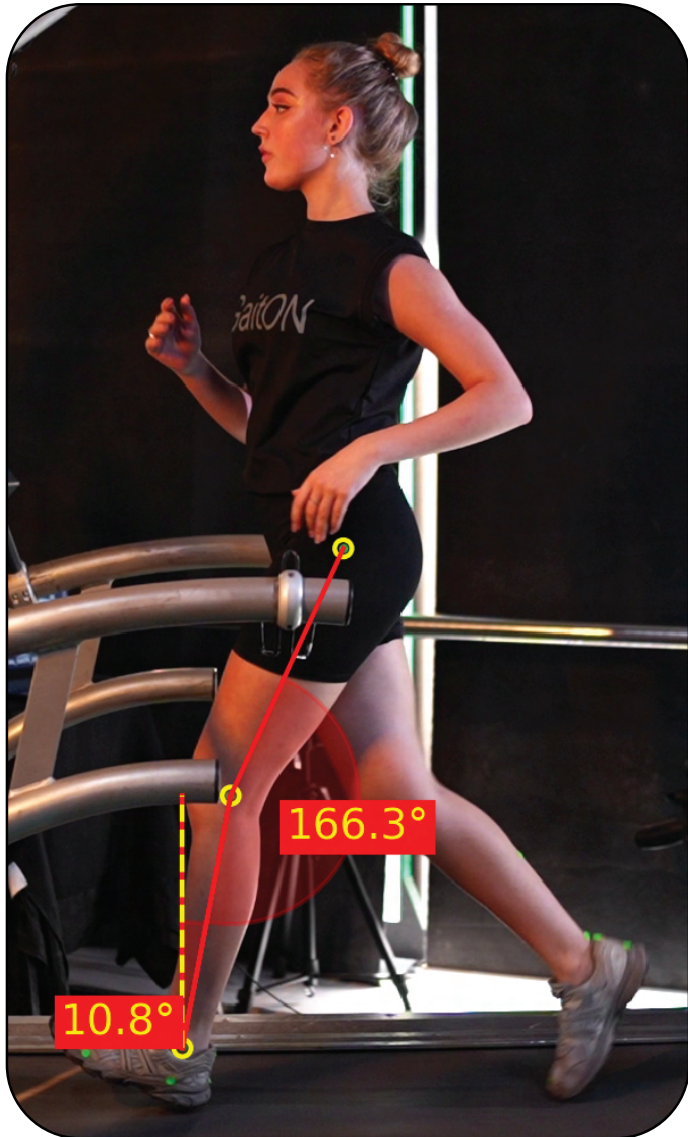
VIEWS ANALYZED



ANTERIOR . POSTERIOR . LATERAL

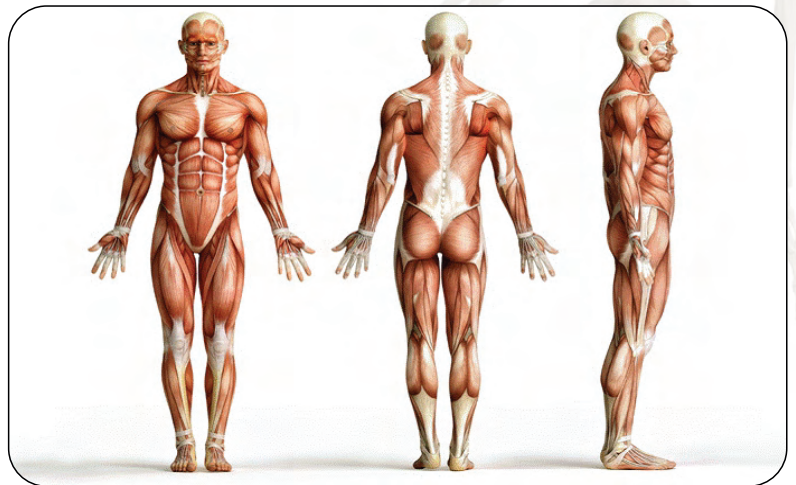
SURFACE
TREADMILL | WALKWAY

RUNNING ANALYSIS



GaitON's running analysis protocol is based on the directives of UW Health Sports Medicine Clinic, USA & detects any abnormal running gait patterns.

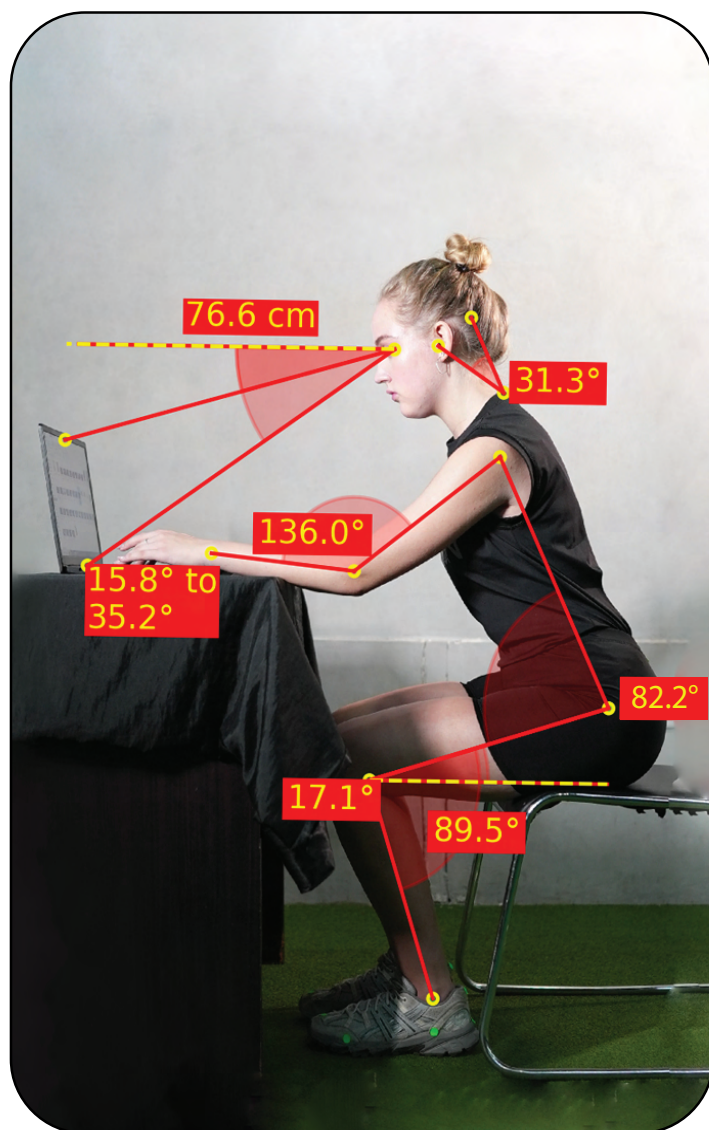
VIEWS ANALYZED



ANTERIOR . POSTERIOR . LATERAL

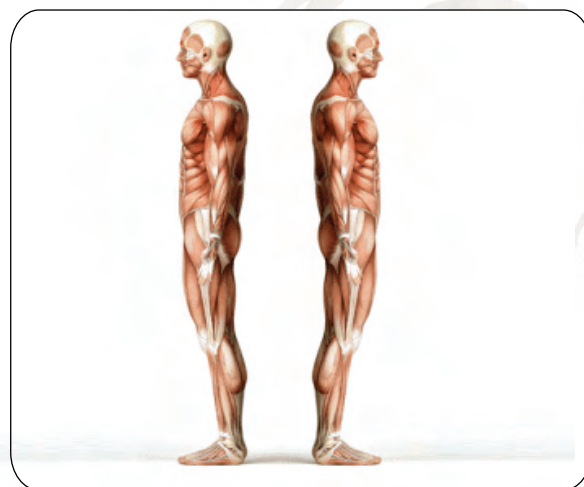
SURFACE
TREADMILL | RUNNING TRACK

SITTING POSTURE ANALYSIS



GaitON's sitting posture analysis markerless protocol identifies key postural deviations in a few clicks & exports all data to a report.

VIEWS ANALYZED



ANTERIOR . POSTERIOR . LATERAL

TIME PER ANALYSIS
5 MINUTES

BIKE FITTING ANALYSIS



GaitON[®] bike fitting software is used by 500+ clinicians globally for a detailed bike fit assessment. It helps in adjusting the bike as per the rider's body measurements, flexibility, riding goals, and any existing injuries.

VIEWS ANALYZED

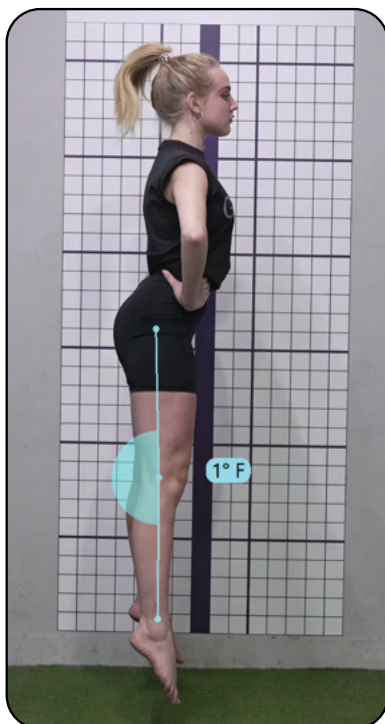
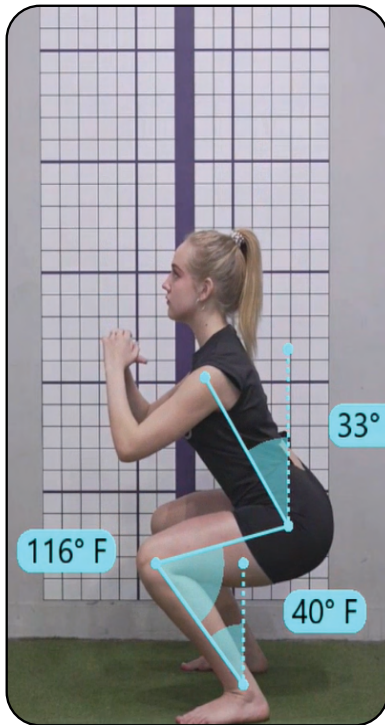


LATERAL AND ANTERIOR VIEW

POSITIONS

ROAD, MTB, TT, TRIATHLETE

FUNCTIONAL MOVEMENT ANALYSIS



GaitON® functional movement analysis is used by 500+ centers globally for a markerless and realtime analysis of squat, jump and other functional activities.

VIEWS ANALYZED



LATERAL AND ANTERIOR VIEW

FUNCTIONAL ACTIVITIES
SQUAT, COUNTER MOVEMENT
JUMP & MORE!

SPORTS SPECIFIC PROTOCOLS

TENNIS SERVE ANALYSIS



Assessment of serve biomechanics

OVERVIEW									
The following table gives an overview of the various biomechanical faults present during the tennis serve along with the list of the probable causes.									
POSTERO LATERAL VIEW					ANTERIOR VIEW				
Knee bend	Yes	✓	No		Foot position	Yes		No	✓
Posterior Hip tilt	Yes		No	✓					
Counter hip rotation	Yes		No	✓					
Trunk hip Separation	Yes	✓	No						
Shoulder Alignment	Yes	✓	No						
OBSERVATIONS									
Fault name	Common injuries				Common causes				
1. Foot position	Increased load on trunk or shoulder				Hip and/or trunk flexibility and strength				
2. Posterior hip tilt	Increased load on shoulder and trunk; inability to push through increasing load on abdominals.				Hip and trunk flexion flexibility and strength				
3. Counter hip	Increased load on				Hip and trunk flexion flexibility and				

Identification of musculoskeletal problems behind biomechanical faults

GOLF SWING ANALYSIS



Assessment of serve biomechanics

OVERVIEW									
The following table gives an overview of the various biomechanical faults present during the golf swing along with the list of the probable causes.									
DOWN THE LINE / LATERAL VIEW					FACE ON / ANTERIOR VIEW				
Posture	Neutral		✓		Reverse Spine Angle	Yes		No	✓
	S Posture				Slide	Yes	✓	No	
	C Posture				Sway	Yes		No	✓
Loss of Posture	Yes		No	✓	Scooping	Yes		No	✓
Early Extension	Yes	✓	No		Chicken Wing	Yes		No	✓
Over the Top	Yes		No	✓					
OBSERVATIONS									
Fault name	Common injuries				Common causes				
1. Early Extension	Low Back Pain				Poor squat mechanics Decreased lead hip internal rotation Poor thoracic rotation Inability to separate torso from hips Weak gluteals and abdominals				
2. Slide	Hip pain Medial knee pain Lateral ankle pain				Decreased lead hip internal rotation Difficulty separating upper body				

Identification of musculoskeletal problems behind biomechanical faults

GaitON[®] is used by 500+ clinicians globally for:

1

Diagnosis of posture & gait disorders

2

Pre-post surgical/rehabilitation comparison

3

Monitoring effects of Orthotics/External supporting gear

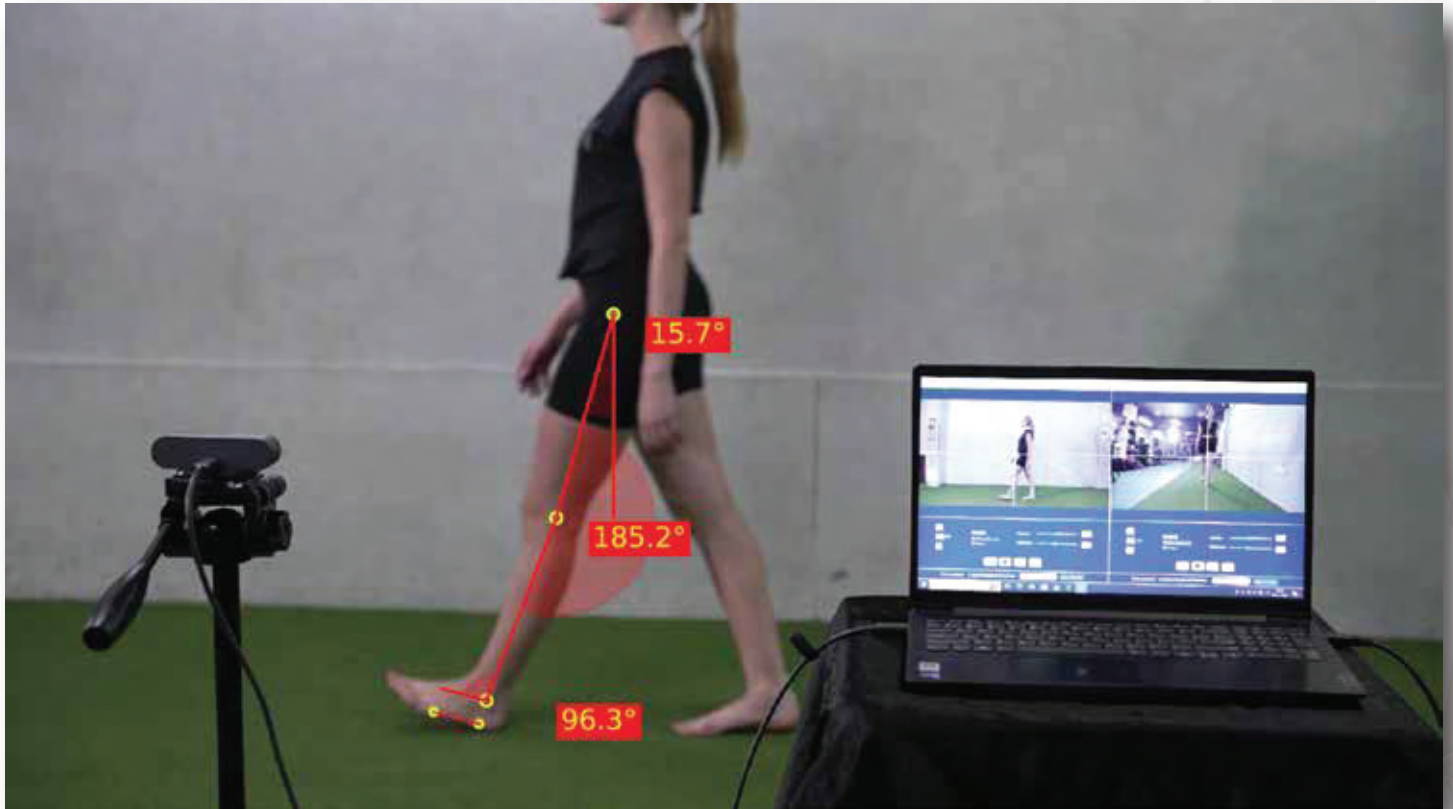
4

Screening camps at schools/corporates.



TOP REFERENCES

GAIT ANALYSIS



Embrace Good Health

Amrita hospital, Kochi/
Faridabad (India)

SETUP



2 Digital Cameras



Walkway



GaitON[®] Software

TOP REFERENCES

GAIT ANALYSIS



Triton Hospital, Delhi (India)

SETUP



4 Digital Cameras



Treadmill



GaitON[®] Software

REFERENCES



Adidas



Indian Navy



BSF



Safdarjung hospital



Hawai'i Pacific University



SRM University



Amrita Hospital



Belle Vue Clinic



Col(Dr) Rana K Chengappa
Sports Medicine & Ortho Rehab



Perfect Bounce



Delhi Foot



Sporting Ethos

GaitON[®]

For a free demo of GaitON,
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