RAYPACK Human Pose

RAYPACK Human Pose is a ready-to-deploy AI model that analyzes the human posture. It detects up to 18 key points of the human body and their relative positions enabling the deduction of highly detailed posture information. This information can be used in a number of applications ranging from health to security purposes. RAYPACK Human Pose offers efficient and accurate analyses of videos and images giving users the opportunity to develop innovative business applications.

RAYPACK Human Pose is deployable as a service on our RAYPACK.AI platform or can be conveniently embedded into existing systems on-premise. Like all our models it is easy to use for AI novices, while still offering great flexibility to AI experts. We provide businesses with the capabilities to use the enormous potential of AI models, without creating AI dependencies.

Figure 1: RAYPACK Human Pose reliably extracts posture information, even from low quality black and white images.

Main Characteristics

RAYPACK Human Pose can be run on relatively cheap, and low-performance AI hardware and has been proven to perform reliably even with low-quality data (Fig. 1).

This gives businesses the opportunity to integrate the model as a feature into almost any existing application or camera-based system without having to worry about hardware or performance problems. The model could be used to automatically supervise a person's physical exercises in medical contexts (Fig. 2) or analyze dysfunctional poses and movement patterns in sports.

Figure 2: Fitness application using RAYPACK Human Pose to count repetitions and to give detailed feedback on the execution of physical exercises.

Privacy Regulations

All RAYPACK solutions offer anonymization of images and videos before storage, facilitating compliance to the European General Data Protection Regulation (GDPR). The AI model analyzes the acquired data in real time, and only the relevant output is stored in a vectorized form.

Use Cases

RAYPACK Human Pose can be used in number of ways. A few examples are:

- Counting correct repetitions of physical exercises for a fitness app
- Giving detailed instructions on how to improve the execution of movements and pose
- Analyzing movement patterns of athletes in videos

Key Features

RAYPACK Human Pose provides several advantages as indicated below:

- Works with images, VOD or live streams
- Provides easy to use JSON or rendered images as output
- License on-premise or cloud
- Supports CPU, GPU Desktop and ARM
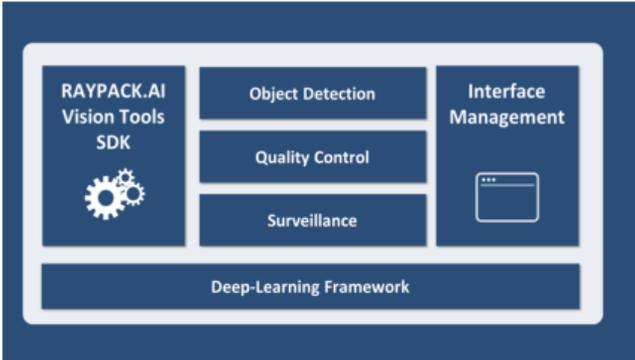- Simple to embed in existing systems
- GDPR compliance facilitated

Figure 3: On top of Deep-Learning models our RAYPACK AI platform offers a variety of tools designed to increase the efficiency of your workflow.

Architecture

Besides our ready-to-deploy models, our RAYPACK AI platform offers:

- An intuitive user interface and API
- RAYPACK Vision Tools SDK to simplify the import and usage of images and videos
- Surveillance and quality control of deployed models

The platform is designed to facilitate accessibility for AI novices and help experts to gain the highest possible flexibility. Together with our hardware partner Rebotnix, we leverage extensive knowledge in the deployment of AI models.

Want to know more?

Are you interested in learning more about RAYPACK Human Pose and try it yourself? Visit us and request your free trial key to our API on https://raypack.ai/raypack-human-pose/.

About RAYPACK

Having an experience of over 15 years in Big Data and Visual Analytics, our team has been continuously developing the roots of RAYPACK.AI to meet the market needs perfectly.

With substantial expertise in Visual Computing, we focus on bringing together AI and businesses by offering customized, highly scalable AI software solutions that power manufacturing, quality control, and other fundamental business processes.

Contact us

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