RAYPACK Face AI

RAYPACK Face AI is a ready-to-deploy AI model that enables detection as well as identification of faces. Its unprecedented performance in a broad range of conditions, including the heavy occlusion of faces and crowds, makes RAYPACK Face AI an accurate and versatile tool for commercial face detection.

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

Figure 1: Accurately estimating the number of faces in a crowd is a difficult problem to solve for face detection systems. RAYPACK Face AI delivers detection rates superior to other methods.

Main Characteristics

Compared to other available face detection systems RAYPACK Face AI performs significantly better in complex conditions, such as occluded faces or large crowds of people (Fig. 1). In a recent benchmark including difficult images like the ones created by the Antiface project (Fig. 2), RAYPACK Face AI displayed higher accuracy than competitors.

Figure 2: Antiface is an art project that creates make-up and hairstyles to fool face recognition system . RAYPACK Face AI detects all faces, whereas other models often fail.

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. RAYPACK.AI models have 3 modes of output:

1. The output of the AI models rendered onto the original image
2. Anonymization by replacement of persons with colored squares or blurring
3. Completely vectorized output including only relevant data

These modes give our customers the flexibility to decide how to handle data storage and processing.

Use Cases

RAYPACK Face AI can be used in various business applications:

- Estimation of crowd sizes (visitors of an event or costumers)
- Face Identification
- Efficient labeling of media house archives
- Anonymizing footage from autonomously driving vehicles

Key Features

RAYPACK Face AI 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
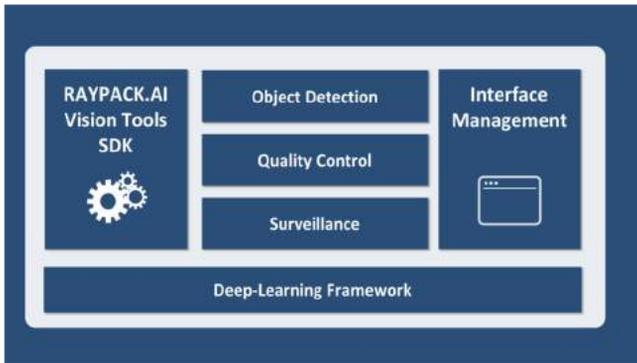- Simple to embed in existing systems
- GDPR compliance facilitated

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 Face AI and try it yourself? Visit us and request your free trial key to our API and documentation on https://raypack.ai/face.

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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