PARAVISION

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Attributes SDK

Many safety, security, and customer experience applications–from protective equipment checks at worksites to purchase of age restricted items to semantic video search functionality–benefit from characterization of key personal attributes. However, between the massive amounts of data to be processed and the need to provide real-time results, it is difficult, expensive, and error-prone to manually check these characteristics. In support of fast, accurate, and repeatable feature characterization, Paravision's Attributes SDK enables automated checks for a range of common features encountered in business, retail, and government applications.

The Attributes SDK functions with standard video streams or still images. It operates on standard computing platforms, operating systems, and programming languages, making it easy to integrate with any pre-existing desktop or server software utilizing Intel CPUs or NVIDIA GPUs.

The Attributes SDK is fully modular and designed to work either in conjunction with or independent of Paravision Face Recognition software. By design, the Attribute SDK extracts face characteristics without performing any face recognition. Insofar, if it is appropriate to bind the noted attributes to an identity, it can be used with Paravision Face Recognition. However, in situations where binding to identity is not desirable, the Attributes SDK functionality can be deployed independent of face recognition.

Supported Attributes

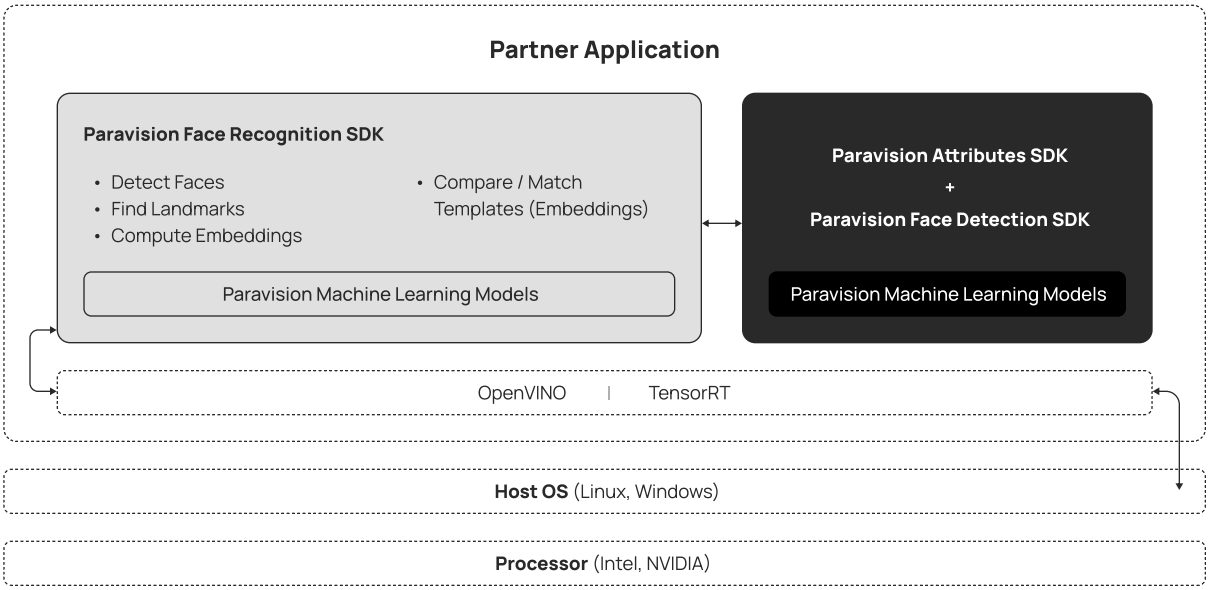
Age calculator	Face mask detector	Eyes open or closed detector
Eyeglasses / Sunglasses detector	Headwear detector	Smile detector

Supported Computing Environments

Paravision supports a wide range of computing environments, enabling our technology on a wide variety of platforms. Paravision proudly partners with leaders from Silicon Valley and around the world to deliver outstanding price, performance, availability, and support:

NVIDIA	Intel	Supported Computer Vision Framework	
NVIDIA INCEPTION PROGRAM	intel partner alliance	OpenVINO	TensorRT

System Architecture



Technical Specifications

Supported programming languages	Python, C++
Supported operating systems	Windows 10+ Windows Server 2019 Datacenter Linux: Ubuntu 20.04
Supported compute platforms (Computer vision frameworks)	Intel CPU (OpenVINO) NVIDIA GPU (TensorRT)