Name: Roxanne Lee
Gender: Female
Age: 20 years old

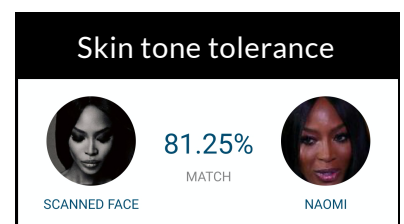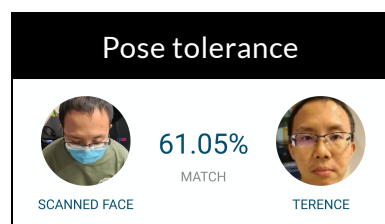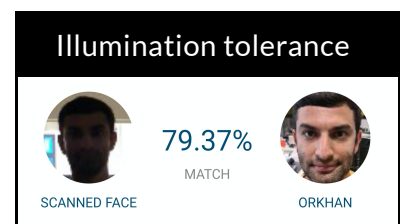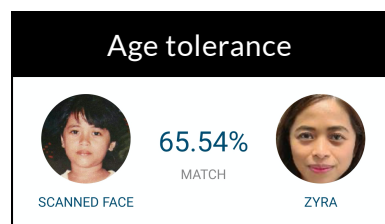# SEVENTH SENSE ON-PREMISES FR SERVER

Seventh Sense API7™ Facial Recognition Server is a tool for developers and system integrators to create facial recognition applications with state-of-the-art recognition accuracy of 99.73% on the Labelled Faces in the Wild (LFW) benchmark. A simple REST JSON API call enables you to create world-class applications using any programming language or framework of your choice.

CHALLENGE ACCEPTED

From aged photos to poorly illuminated captures, our technology offers you options to deal with any kind of challenging scenario.

Unlike traditional facial recognition technology, we use the very best, state-of-the art, deep learning models to deliver you best-in-class performance.

Age tolerance
65.54%
MATCH
SCANNED FACE
ZYRA

Illumination tolerance
79.37%
MATCH
SCANNED FACE
ORKHAN

Pose tolerance
61.05%
MATCH
SCANNED FACE
TERENCE

Skin tone tolerance
81.25%
MATCH
SCANNED FACE
NAOMI

WHY CHOOSE API7 FR SERVER?

Ease of integration

API7™ can be easily integrated into existing products like buidling management, access control and attendance systems.
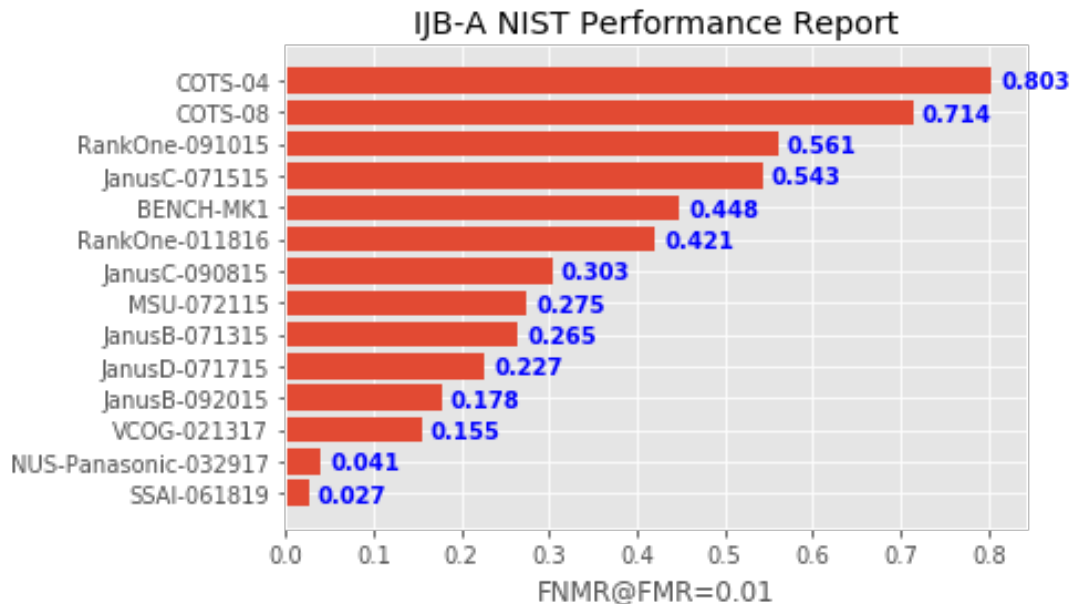
Cost

Our system is economically priced using low-cost hardware. Intel Core i7 8th gen or later processors can be used for face search speeds of 12-13 RPS (requests per second).

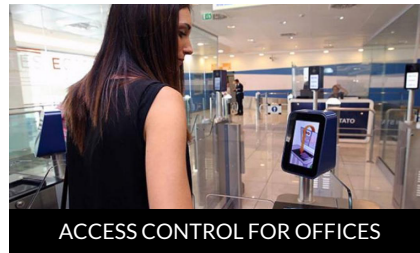## Data Security

All data is stored locally on your machine

Accuracy*

LFW Benchmark
Fast model: 99.62%
Accurate model: 99.73%

NIST IARPA IJB-A
FNMR @FMR=0.01, SSAI @ 0.027

NIST IARPA IJB-C
FNMR @FMR=0.01, SSAI @ 0.022

IJB-A NIST Comparison

IJB-A NIST Performance Report

	FNMR@FMR=0.01
COTS-04	0.803
COTS-08	0.714
RankOne-091015	0.561
JanusC-071515	0.543
BENCH-MK1	0.448
RankOne-011816	0.421
JanusC-090815	0.303
MSU-072115	0.275
JanusB-071315	0.265
JanusD-071715	0.227
JanusB-092015	0.178
VCOG-021317	0.155
NUS-Panasonic-032917	0.041
SSAI-061819	0.027

Partners

Singtel   ST Engineering   INTERCORP   NUS National University of Singapore

* This is for API7™ FR Server version 1.1.0

FACIAL RECOGNITION USE CASES

ACCESS CONTROL FOR OFFICES

Integrate with your bio-metric access control for a non-contact flow.

Combine cloud deployments and our edge solution for seamless operation even when the network is down.

ATTENDANCE SYSTEM

Integrate our solution with existing attendance systems.

FOR DEVELOPERS

Develop unique solutions using facial recognition.

BANKING

Integrate our technology in mobile banking Android apps for face verification.

Create digital IDs to ensure safe and secured access.

System requirements (physical machine)*

The following table lists the minimum and recommended specifications of machines running the software:

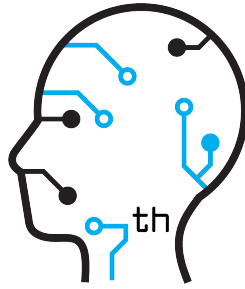|	Minimum	Recommended
OS	Ubuntu 18.04/20.04 LTS Desktop or Server	
CPU	Intel Core i5 5th gen or later	Intel Core i7 8th gen or later
Clock speed	2.2GHz, 2 cores, 4 threads	3.2GHz, 6 cores, 12 threads
RAM	8GB	8GB
Free disk space[1]	600MB	1GB
Registration speed[2]	2-3 RPS[3]	4-5 RPS
Search speed[4]	7-8 RPS	12-13 RPS

*   This is for API7™ FR Server version 1.1.0

[1]   In addition to its initial install size, the product consumes 106.5MB per 10,000 enrolled persons with 1 picture each

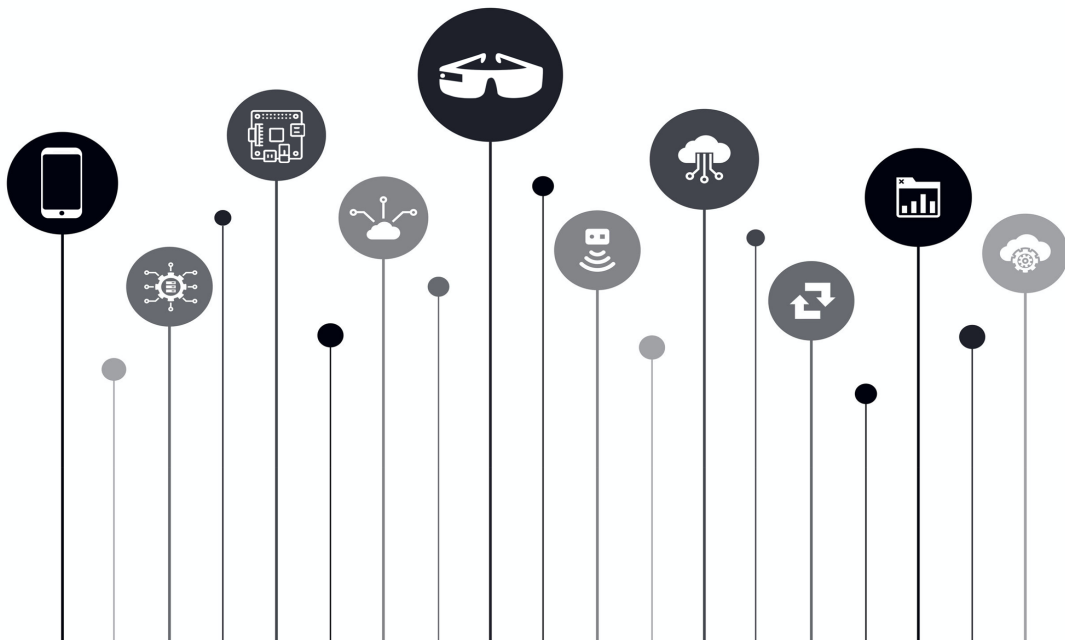[2]   Registration speed is the speed of registering a person into the facial recognition database

[3]   RPS – Requests per second

[4]   Search speed is the speed of searching for a person in the database with one image

Smart Vision at the Edge