Master Dynamic won the champion at AI Millionaire – Image Recognition Challenge organized by HKSTP

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With the support of its partner company, Master Dynamic Limited & AI Gaspar jointly developed an AI system that won the image recognition challenge in the "AI + U: Discovery and Experience Exhibition" organized by the Hong Kong Science and Technology Park Corporation (HKSTP). As the champion of this competition, Master Dynamic Limited & AI Gaspar demonstrated their best accuracy and response time to find the correct answers to tricky picture set which either are generated by computers (Generative Adversarial Networks-GAN), or with the facial features intentionally altered to fool around the face recognition algorithm.

ABOUT THE CHALLENGE

Stretching the performance of facial recognition systems by extracting correct answers from faces that are extremely similar or heavily decorated.

A highlight of this challenge is to provide the contestants with pictures that show the faces of different people that look very similar to the naked eye. Contestants must obtain data from the pool and perform high-speed computation for matching faces. More than that is the results have to be given out at super speed for aiming the best scoring. This kind of stress test is to challenge the accuracy of the facial engine with very stringent conditions.

Some challenging pictures show the exact faces of people, but they were shot at different ages or cosmetic highlights, and even being styled as the opposite sex. The test set with the largest stretch range contains computer-generated pictures or pictures with very low resolution and blurry display. These question sets are designed to test engine performance when dealing with high-noise data.

The competition results showed Master Dynamic Limited & AI Gaspar are far ahead of all the contestants.

"We see the computer vision trend is going to cover a wide range of applications, it was very popular in access control and security arena. Now we see more and more business sectors recognize its values in big data analytics, such as calculating traffic flow and the number of pedestrians in prime locations, and obtaining data for urban planning. Or to factory for quality control and monitor product consistency. We see that Hong Kong companies are picking up at astonishing rate, and many projects are directly answering business problems, we are positive about the prospects of Hong Kong developers bringing innovation into the industry. "said the project manager Ashley Cheung, leading the competition.

ABOUT MASTER DYNAMIC

Established in 2011, Master Dynamic Limited (MD) is a Hong-Kong-based research and development company with an engineering team of 70 engineers, researchers, scientists and software developers who specialized in developing technology and solutions related to anti-counterfeit technology, material analysis, nanotechnology and nanofabrication. Over 80 invention patents were granted to MD since its inception. MD's headquarter and two well-equipped laboratories are located at Hong Kong Science and Technology Park (HKSTP).

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