



ARTIFICIAL INTELLIGENCE

FACIAL RECOGNITION

LONGWAY A.I. TECHNOLOGIES

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LONGWAY A.I. Technologies is a Singapore based artificial intelligence company with in-house technological know how in Deep Learning and Neuromorphic technologies. We are one of the few companies in Singapore able to employ, create and deploy both DNN & ANN to create artificial intelligence algorithm such as **Facial Recognition** and develop **predictive and automated** solutions for companies.

We have been able to use lesser data and hardware, enhanced with A.I. algorithms to achieve a low power solution with adaptive learning capabilities.

KEY DIFFERENTIATOR

High speed parallel processing

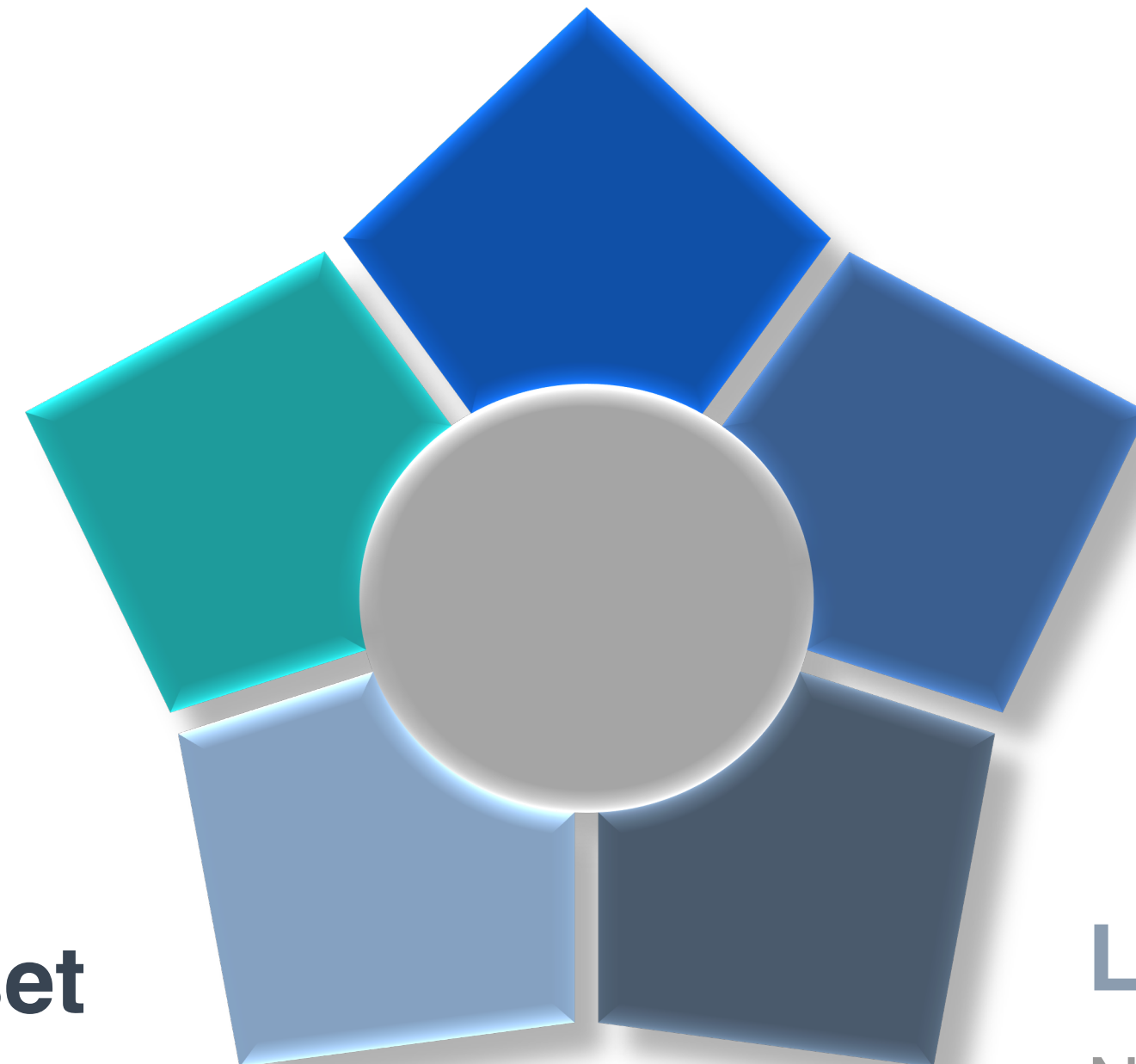
Process complex task at very high speed

Adaptive learning

Anomaly detection & learning on-the-fly
No need to re-learn new things in the lab
life-long learning

Training with minimal dataset

System could start working with minimal
sample dataset



Proven technologies

Used by industry leaders like Intel, Rohm,
Nepes and others

Low-power edge AI solution

No GPU needed to run the algorithm
Low power solution suitable for smart IoT at
the edge

Facial TECHNOLOGY

A.I. For Business Solutions

FACIAL RECOGNITION

Our in house facial recognition algorithm is currently running on both Windows and Linux. We offer an edge solution where data do not necessarily need to reside in the cloud. Enabling pronounced security for biometric data such as facial recognition, which has gained popularity immensely.

The algorithm however, can be programmed onto a server to facilitate cloud authentication. The data of our faces will be stored as a matrix of numbers 0 and 1 in a vector string, instead of faces to prevent hackers from accessing your data. The actual faces could be stored on a more secure locale at the edge.

We foresee many unique applications for this algorithm, which has the flexibility not offered by Chinese companies such as SenseTime.

Furthermore, the reason why we spent much effort into inventing our own algorithm is to provide an alternative to Chinese technology on facial recognition.

We believe in allowing our user to have full autonomy over their facial identities.

FACIAL RECOGNITION ALGORITHM

Award winning in house facial recognition algorithm during the Merlion Awards 2019 in Singapore. Our unique solution features a combination of deep learning and neuromorphic technologies and can be deployed in hardware or software.

We have since deployed the solution at ARTC, Advanced Remanufacturing & Technology Centre in Singapore and our Predictive Elderly Fall Prevention solution.

Solution Demo in Lab:

<https://www.youtube.com/watch?v=ZWYfoCBFEI4>



INSTALLATION IN SINGAPORE

Our facial recognition algorithm has been installed in ARTC, the advanced remanufacturing and Technology centre under A*Star in Singapore.



THANK YOU

