



Reactor

Azure 認知服務動手實驗



Download Today's Event Resources

Includes free learning path courses
& documentation on AI Fundamentals

(Scan QR Code)



<https://aka.ms/AAer0x6>



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youtube.com/microsofthk



@mshktech



@Microsoft HK Dev Community

个人介绍



Kinfey Lo – (盧建暉)

Microsoft Cloud Advocate

前微軟MVP、Xamarin MVP和微軟RD，擁有超過10年的雲原生、人工智能和流動應用開發經驗，為教育、金融和醫療提供應用。在微軟，為技術人員和不同行業宣講技術和相關應用場景。

Love Coding(Python , C# , TypeScript , Swift , Rust , Go)

專注於人工智能，雲原生，流動平台移動開發

Github : <https://github.com/kinfey>

Email : kinfeylo@microsoft.com **Blog :** <https://dev.to/kinfey>

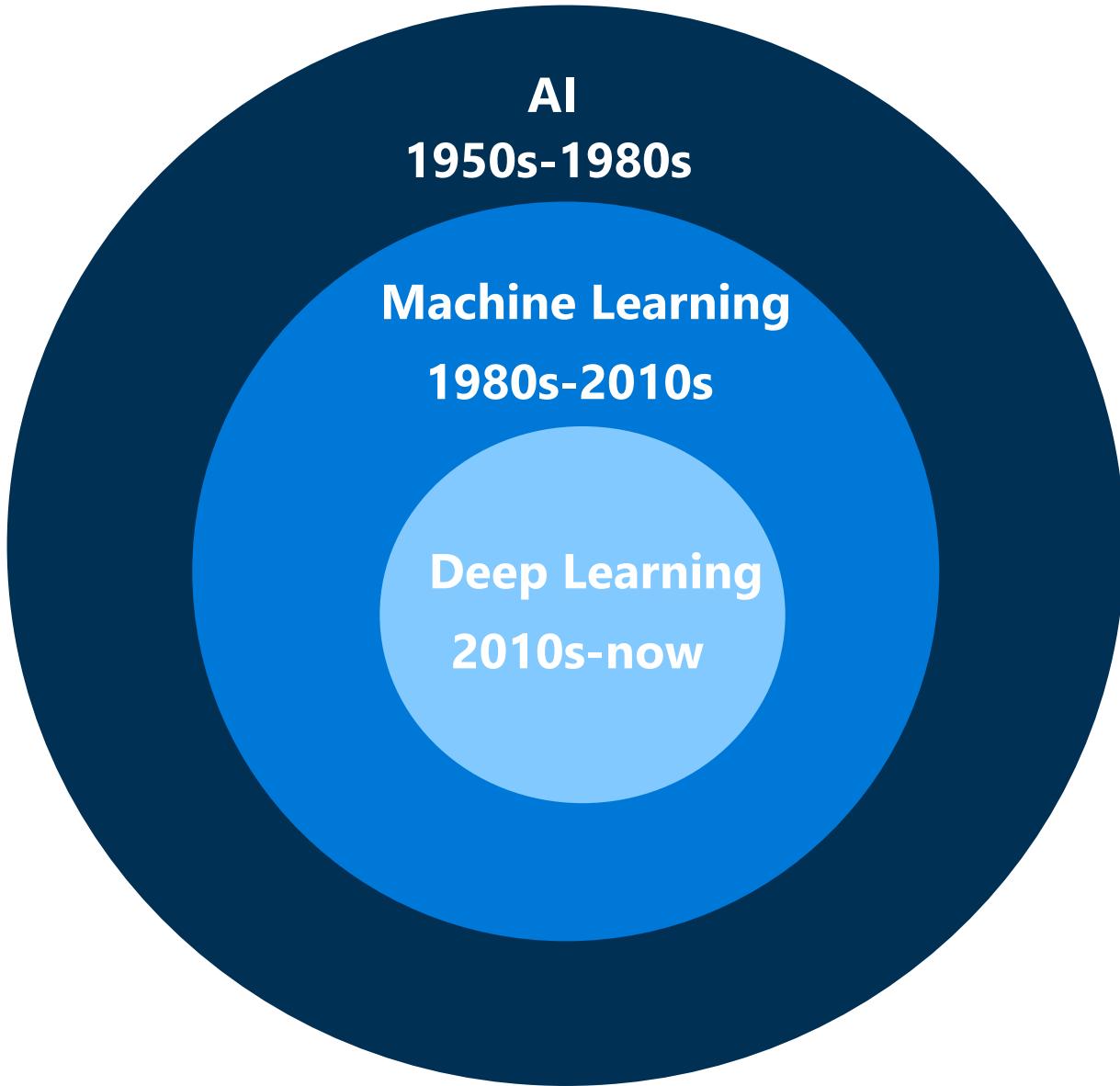
Twitter : @Ljh8304

人工智能為何物



技術不斷變





AI最常用場景



計算機視覺

語言/文字/Chatbot

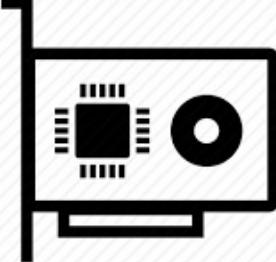


知識

如何做AI ?



Local PC / Laptop

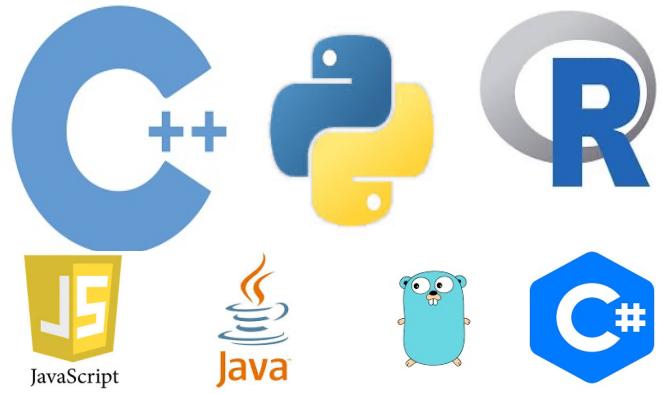


GPU



Cloud Computing

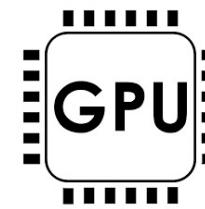
AI點做



程式



框架



Hardware

複雜，係咁88先



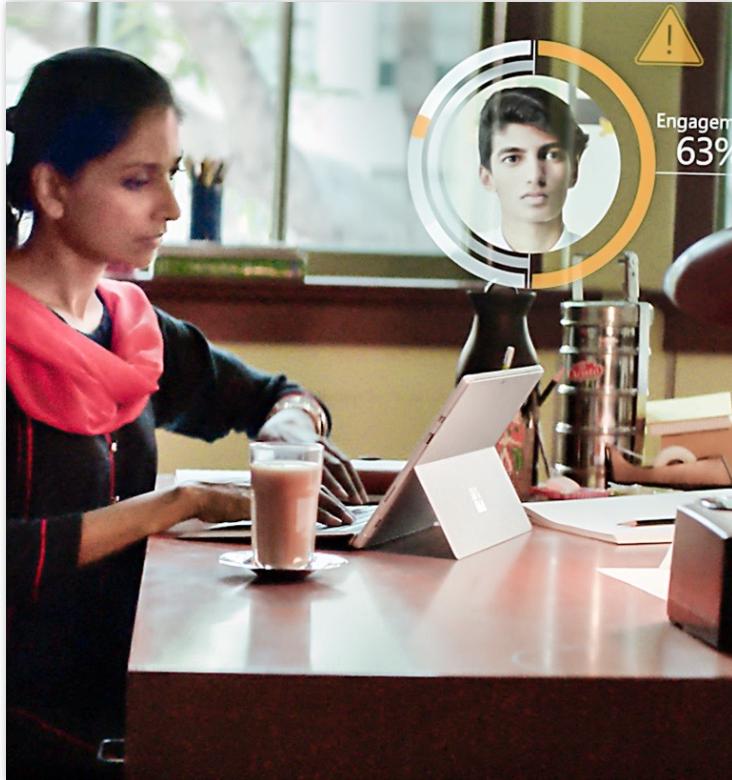
微软的 Machine Learning



AI主要驅動力

AI drivers

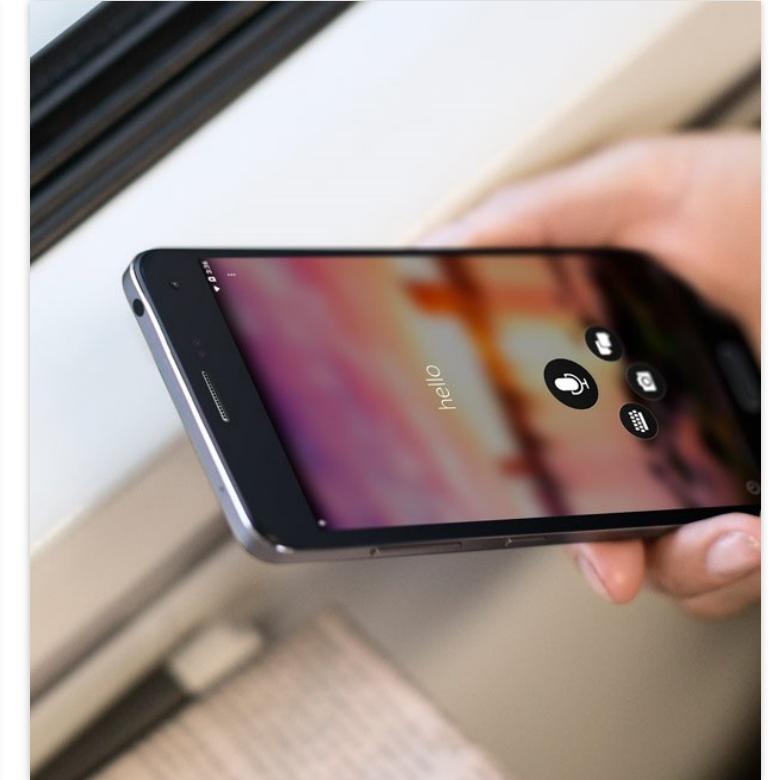
雲 Cloud / Compute



數據 Data

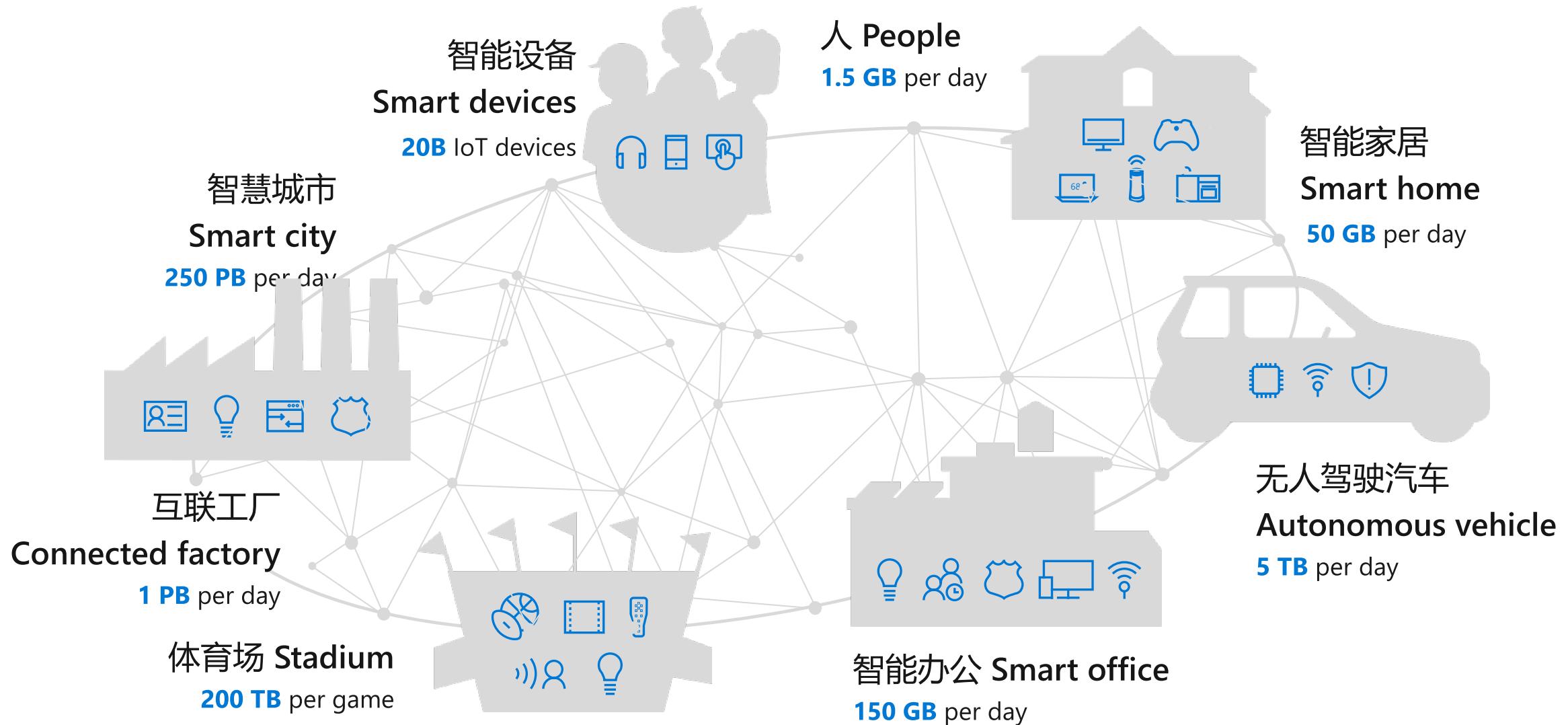


算法 Algorithms

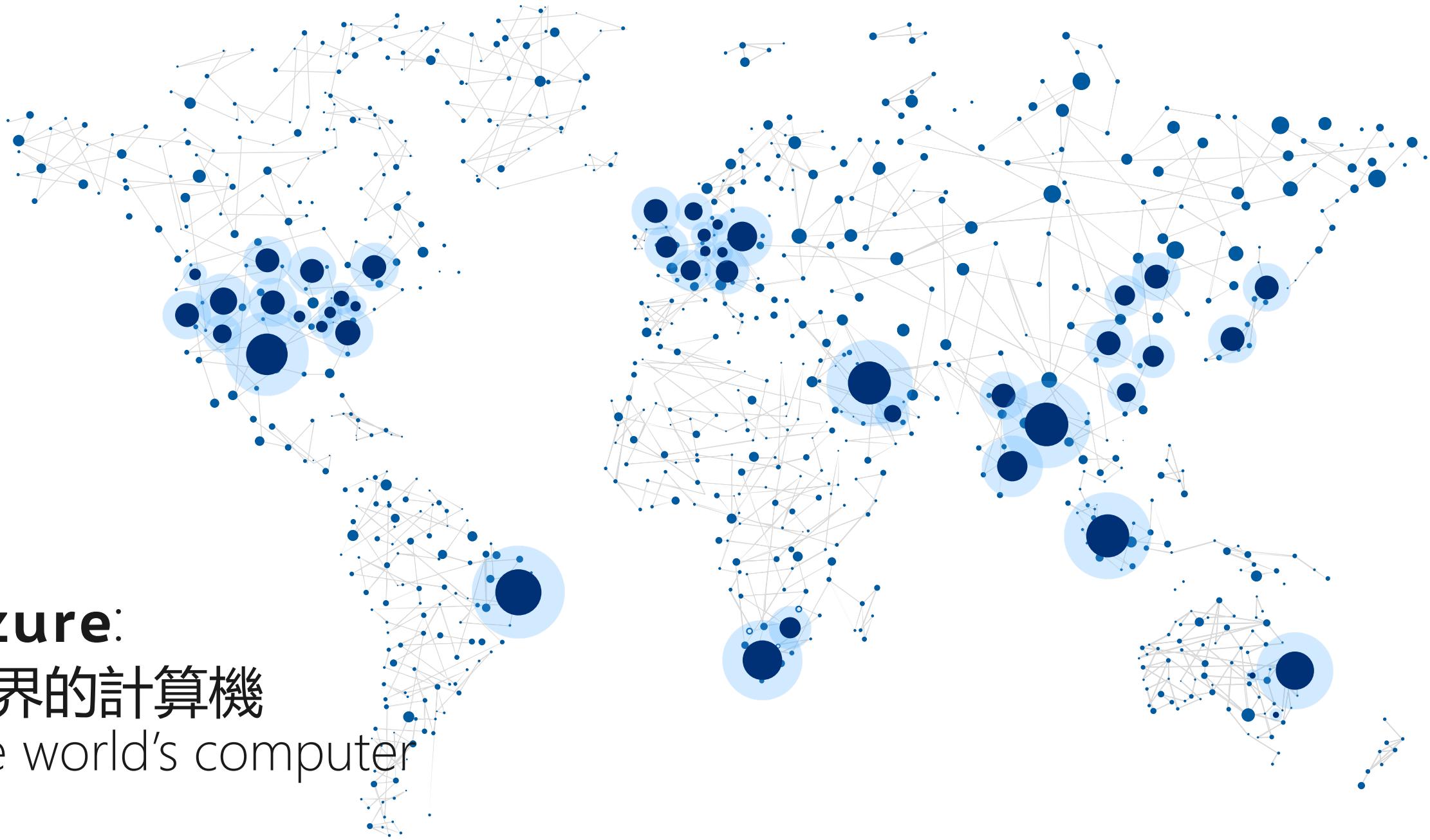


2020 年個世界

Data by 2020...



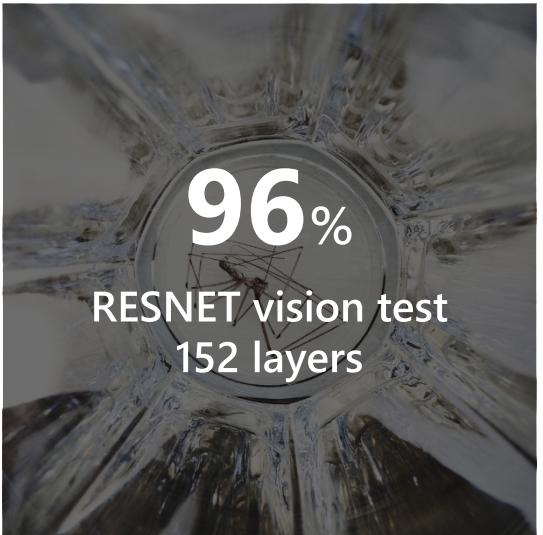
Azure:
世界的計算機
the world's computer



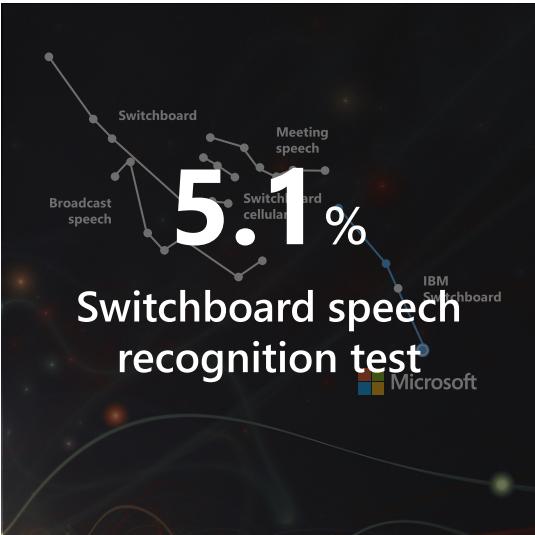
微軟人工智能爆點

Microsoft AI breakthroughs

視覺 Vision



語音 Speech



2016

Object recognition
Human parity

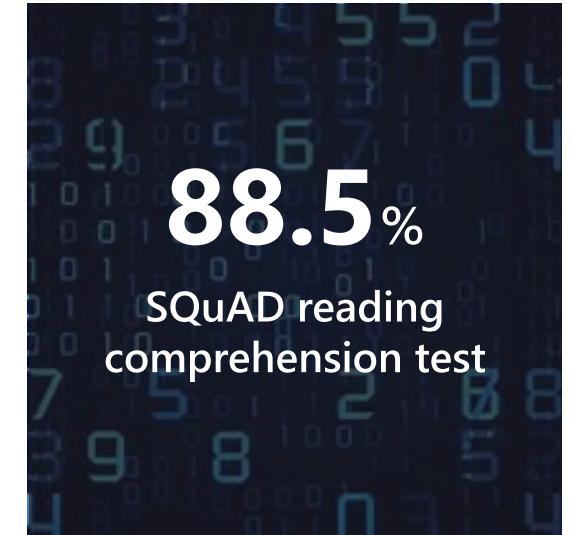
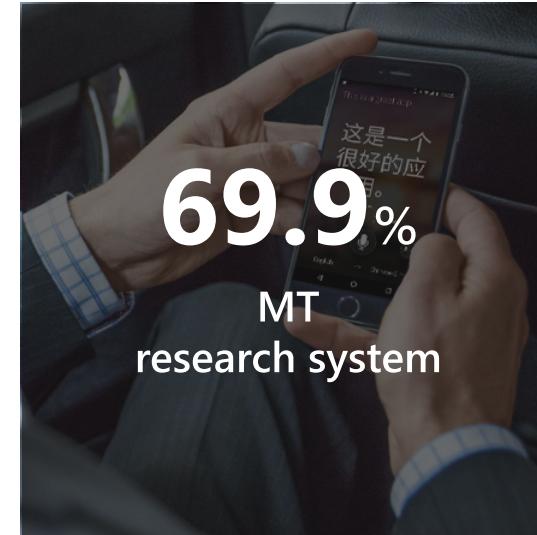
2017

Speech recognition
Human parity

March 2018

Machine translation
Human parity

語言 Language



January 2018

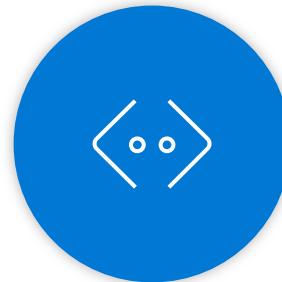
Machine reading comprehension
Human parity

微軟人工智能 投入多個領域

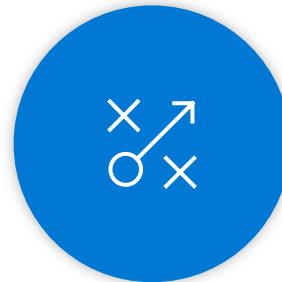
Microsoft AI
investment areas



AI 平臺 (AI platform)



AI 融入 (Infusing AI)

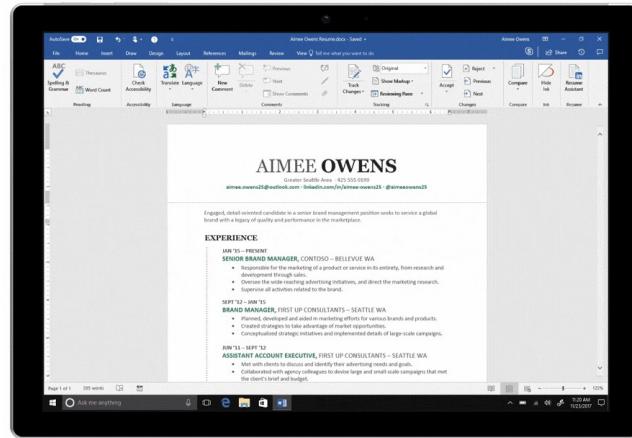


商業方案(Business solutions)

AI 融入 Infusing AI

人臉識別、小娜、電子筆
Facial recognition | Cortana | Inking

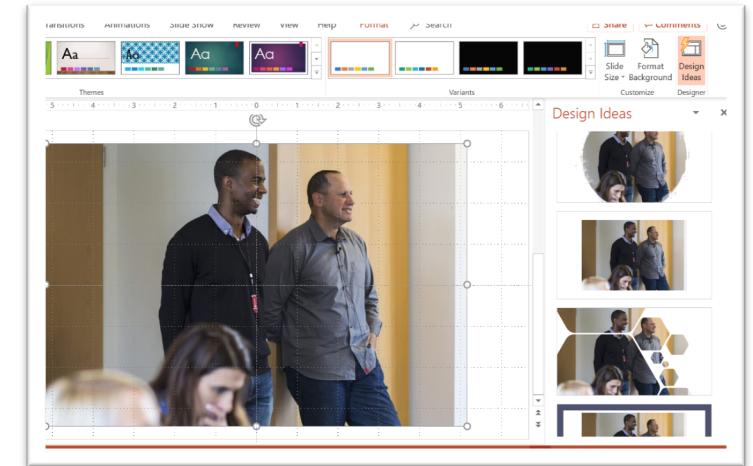
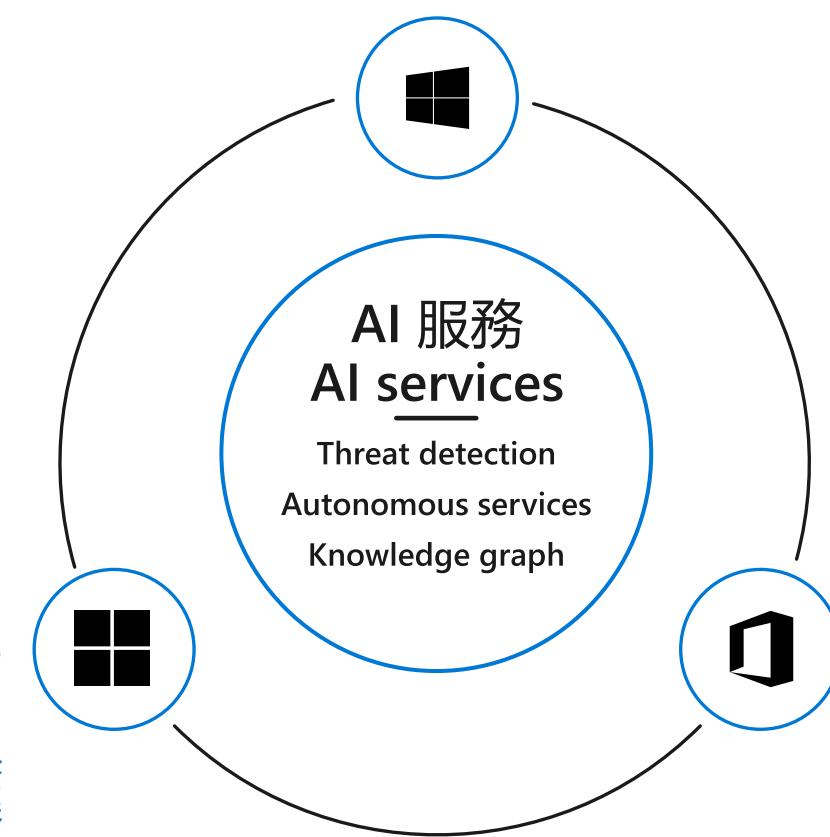
Windows



Visual Studio

深度學習框架
AI模型管理、樣例集

Deep learning frameworks |
Manage AI models | Sample gallery



Azure 認知服務

Azure Cognitive Services



The Microsoft AI platform

Cloud-powered AI for every developer

Services

CUSTOM AI

Azure Machine Learning

PRE-BUILT AI

Cognitive Services

CONVERSATIONAL AI

Bot Framework

Tools

CODING & MANAGEMENT TOOLS

VS Tools
for AI

Azure ML
Studio

Azure ML
Workbench

Others (PyCharm, Jupyter Notebooks...)

Infrastructure

AI ON DATA

Cosmos
DB

SQL
DB

SQL
DW

Data
Lake

Spark

DSVM

AI COMPUTE

Batch
AI

ACS

Edge

CPU, FPGA, GPU

DEEP LEARNING FRAMEWORKS

3rd Party

Cognitive
Toolkit

TensorFlow

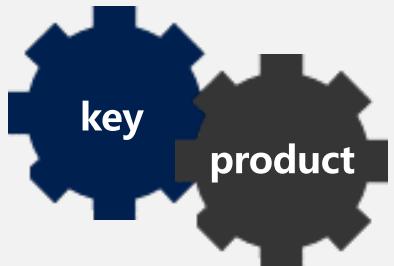
Caffe

Others (Scikit-learn, MXNet, Keras,
Chainer, Gluon...)

選擇認知服務理由



簡單



柔性



支援性強



認知服務



計算機視覺開始玩起

https://github.com/kinfey/MSCloudAdvocateHKClassRoom/tree/main/AzureCognitiveServiceHandsOnLabHK_202111/AzureComputerVisionHOL/code

1. OCR

2. 計算機自定義視覺

3. 專業訓練的計算機視覺



Chatbot



Chatbot入門

https://github.com/kinfey/MSCloudAdvocateHKClassRoom/tree/main/AzureCognitiveServiceHandsOnLabHK_202111/AzureChatbotHOL/pdf

1. 搭建Chatbot

2. 部署Chatbot到雲端

3. QnA Maker 使用

4. LUIS使用

5. 做一個COVID-19 Chatbot





Reactor

Thank You!