評選重點及實作組AI開發套件

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評選重點

	概念組/注重創新構想	實作組/注重開發實作
評審重點	• **概念創意性/Creativity (30%)** • 商轉可行性/Market value (30%) • 市場發展性/Feasibility (20%) • 作品完整性/Completeness (20%)	• **方案獨特性/Uniqueness (30%)** • Market value (30%) • Feasibility (20%) • Completeness (20%)

實作組AI開發套件

AAEON an ASUS assoc. co.

ADLINK Leading EDGE COMPUTING

ADVANTECH

AOPEN Bright Ideas Connected

ASRock Industrial

DFI

LexSYSTEM

NEXCOM IOT

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實作組AI開發套件

AAEON an ASUS assoc. co.

UP Xtreme i11 Edge Compute Enabling Kit

》技術規格

- UP Xtreme i11 Edge Compute Enabling Kit with the latest Intel® 11th Gen Core SoC, up to 4.4GHz
- Intel® UHD Graphics (Core™ i3) / Intel® Iris XE (Core™ i5 & i7)
- 12V Power Supply
- 1x US power cord + 1x EU power cord
- Ubuntu 20.04 LTS and 5.8 Kernel
- Intel® Distribution of OpenVINO™ toolkit 2021.4
- Intel® Media SDK
- Intel® Distribution for Python*
- MRAA and UPM I/O and sensor libraries for C++, Python*, Java*, and JavaScript*
- Docker-CE
- k3s Kubernetes
- ONNX
- AWS Greengrass

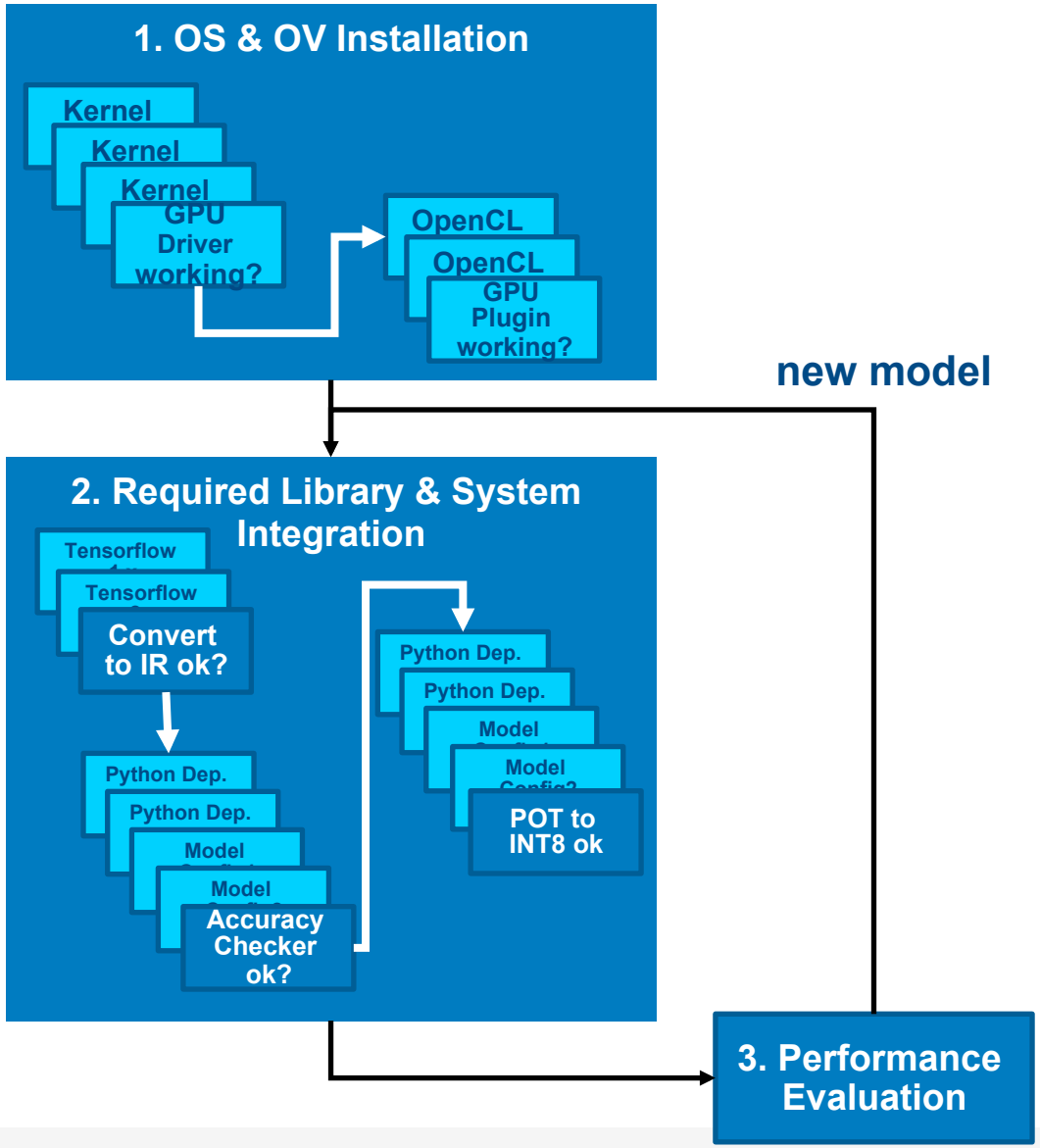
》產品介紹

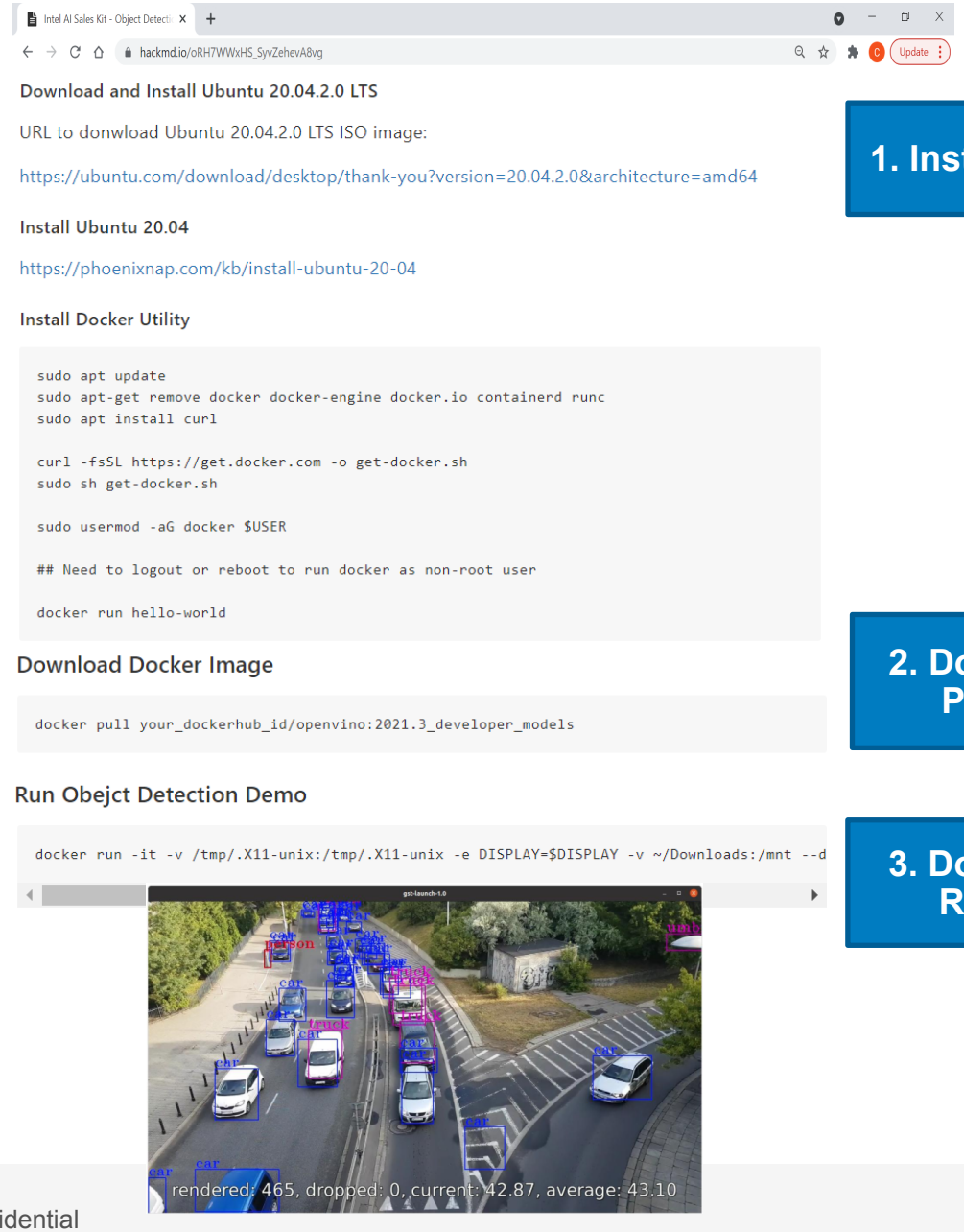
產品官網完整介紹

》安裝指南

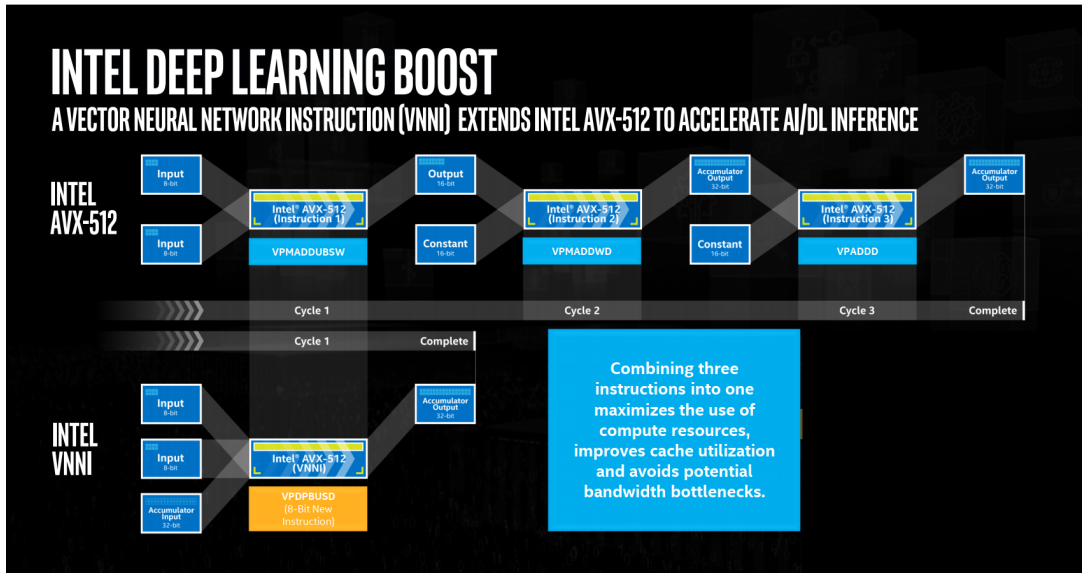
安裝指南文件下載

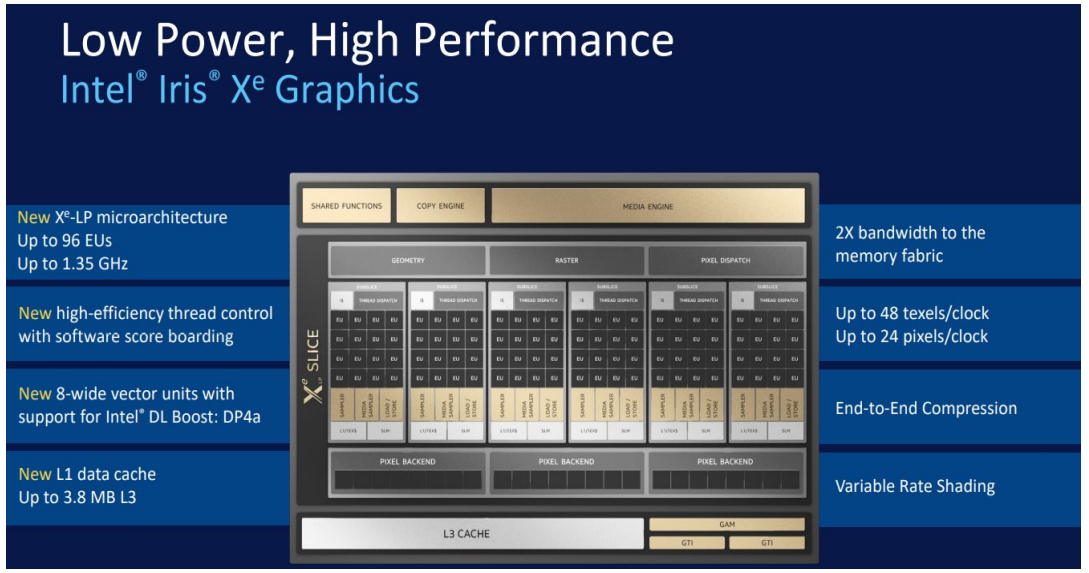
Object Detection Demo and Benchmark with YOLO v3





Tiger Lake UP3 : 11th Gen Intel® Core™ Processors

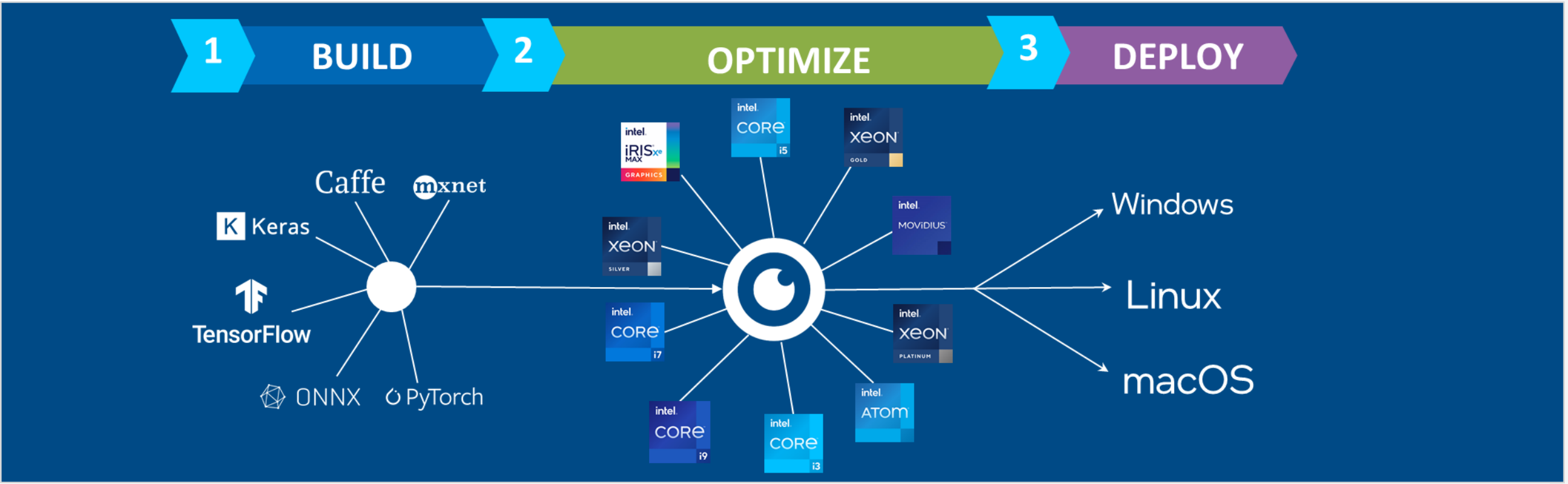




Why Intel® Distribution of OpenVINO™ toolkit

Fast, accurate real-world results with high-performance, deep learning inference

Convert and optimize models, deploy across a mix Intel hardware and environments, on-premise and on-device, in the browser or in the cloud

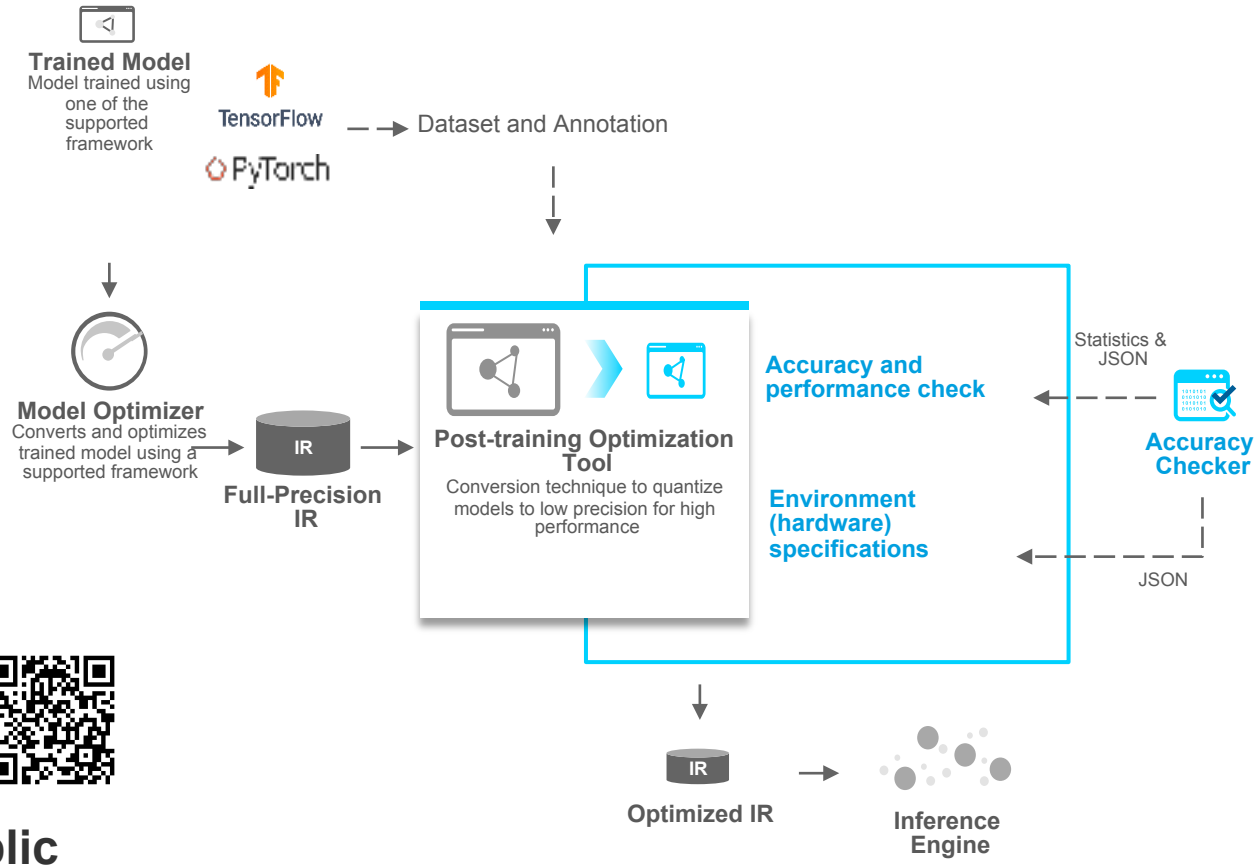


Post-Training Optimization Tool

Conversion technique that reduces model size into low-precision without re-training

Reduces model size **while also improving latency, with little degradation** in model accuracy and without model re-training.

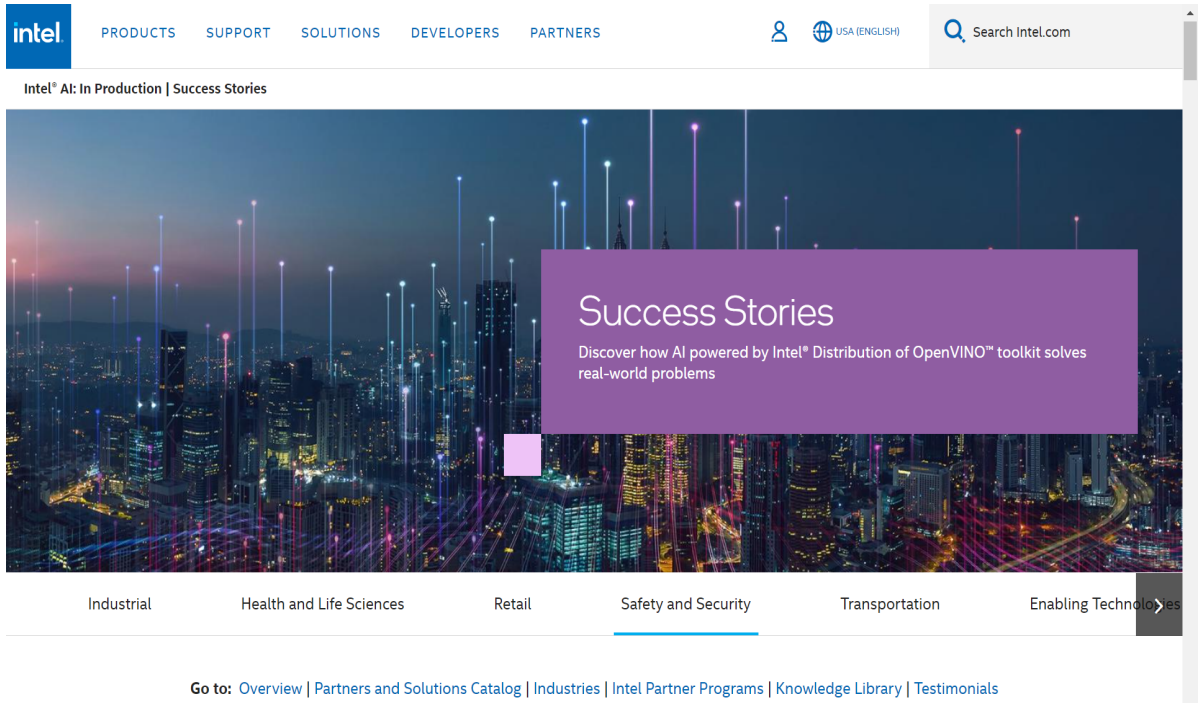
Different optimization approaches are supported: quantization algorithms, sparsity, etc.



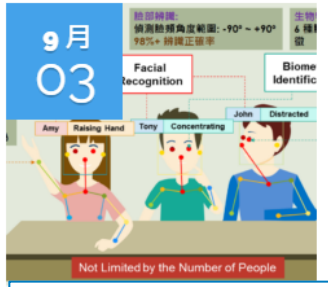
Use POT to Quantize yolo-v3-tf Public Model
https://hackmd.io/s5xQ3WSFvJ32wLniQ

Use POT to Quantize yolo-v4-tf Public Model
https://hackmd.io/mQHIp8vgTViF9Ao4mnI5rw

OpenVINO Use Cases



Industrial	**Health and Life Science**	**Retail**
Safety and Security	**Transportation**	



【活動報導】AI翻轉教室，提升教學成效!

POSTED BY 王姵文 ON 9 月 3, 2021 IN EDGE AI, INTEL, OPENVINO, OPENVINO活動報導, 人工智慧, 活動報導

【活動報導】AI助攻！機器視覺應用再升級

POSTED BY 謝涵如 ON 7 月 23, 2021 IN EDGE AI, OPENVINO, OPENVINO專欄, OPENVINO活動報導, 人工智慧, 智慧工廠, 活動報導

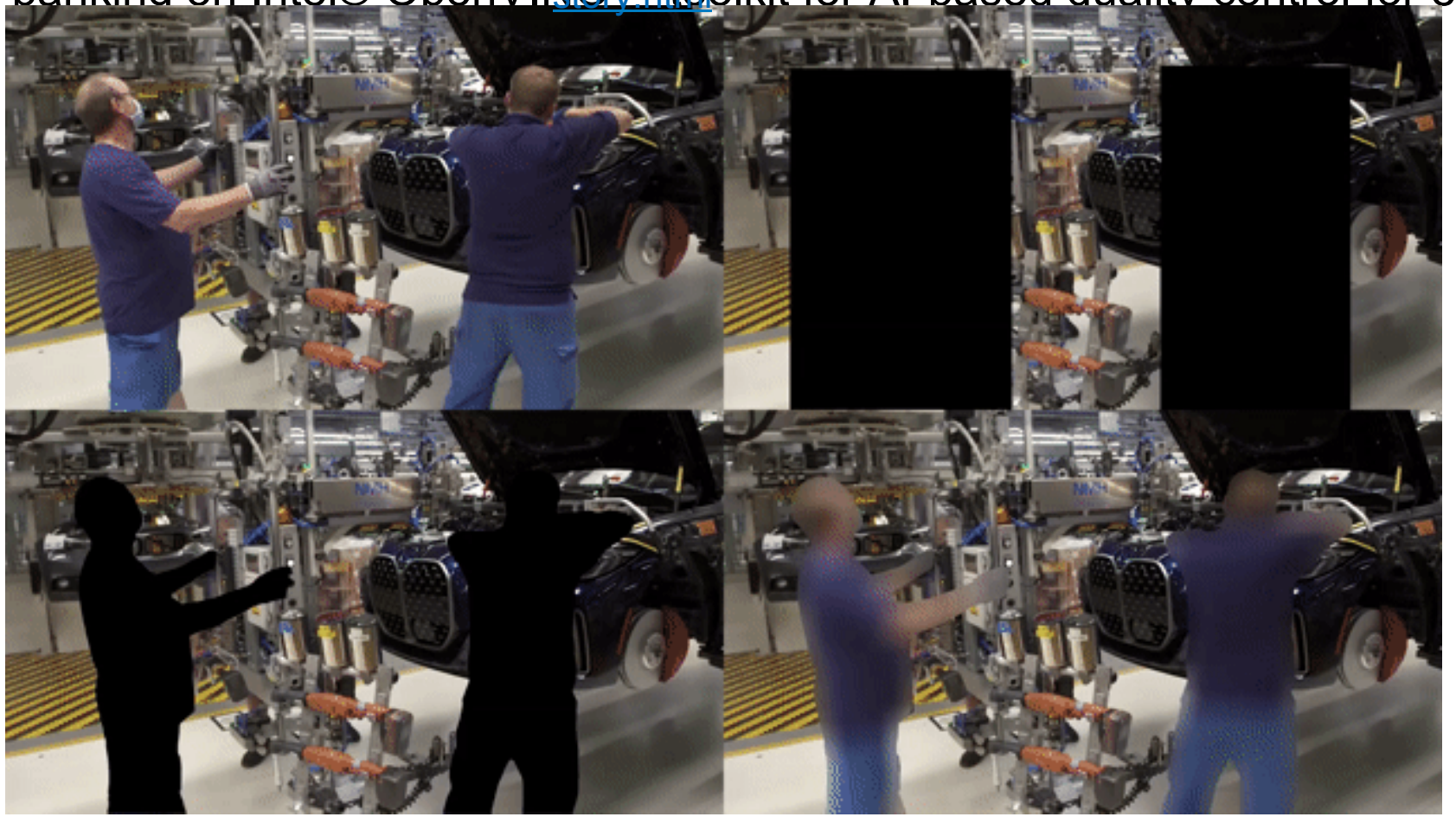
【活動報導】智慧零售：善用AI 掌握商機

POSTED BY 劉書妤 ON 6 月 16, 2021 IN 5G, EDGE AI, INTEL, OPENVINO, OPENVINO活動報導, 影像處理, 智慧零售, 活動報導

BMW Group: Quality Control on Every Employee PC

https://www.intel.com/content/www/us/en/customer-spotlight/stories/bmw-group-openvino-customer-story.html

BMW Group is banking on Intel® OpenVINO™ toolkit for AI-based quality control for every employee.



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Object Detection
Demo
and Benchmark

實作組AI開發套件

AI in Production
Success Stories

MAKERPRO
Edge AI MeetUp