Ai Order Picking Robots Faster Than Humans?

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Product Manager

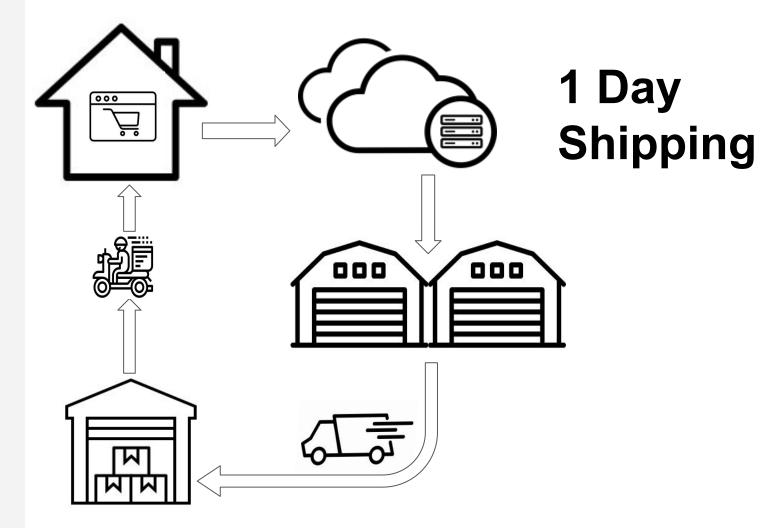






Customer Expectation

Online shopping





Pick List Walk





Order picking





Voice Guided Picking





Robot To Goods





Goods To Person Picking

amazon.com°







Object Detection





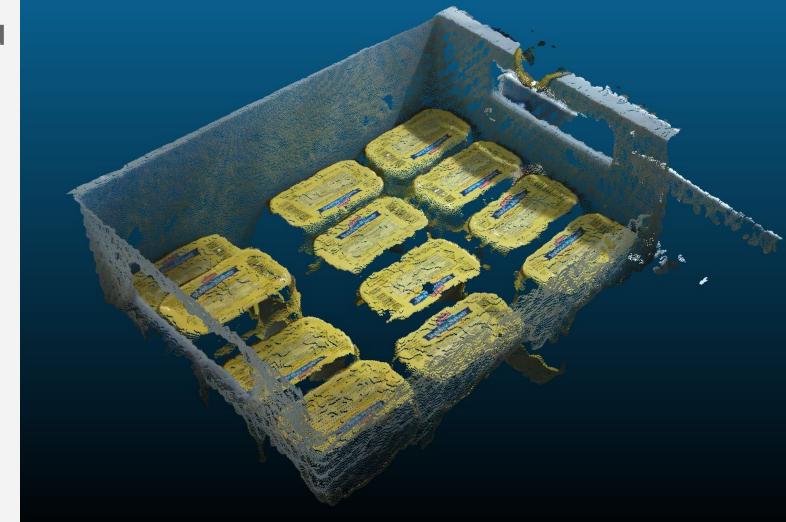


Object Detection

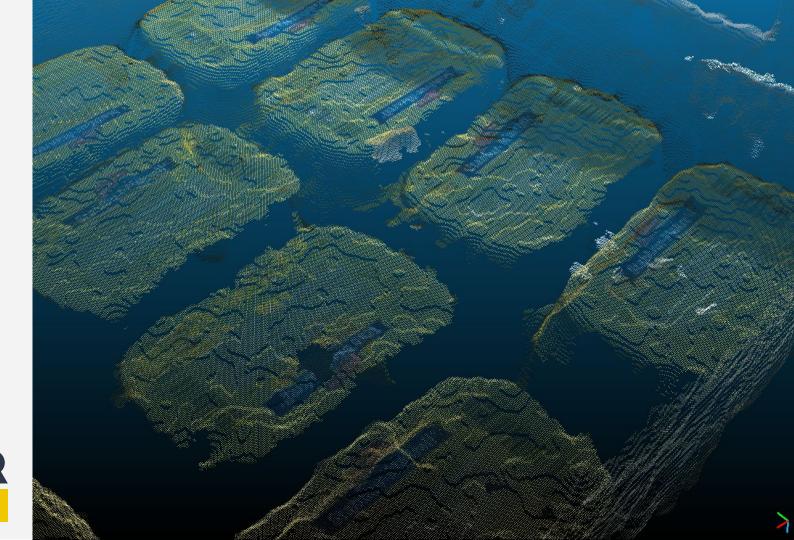




Point Cloud Depth Perception









Object
Feature
Extraction







Picking Raw food is Hard







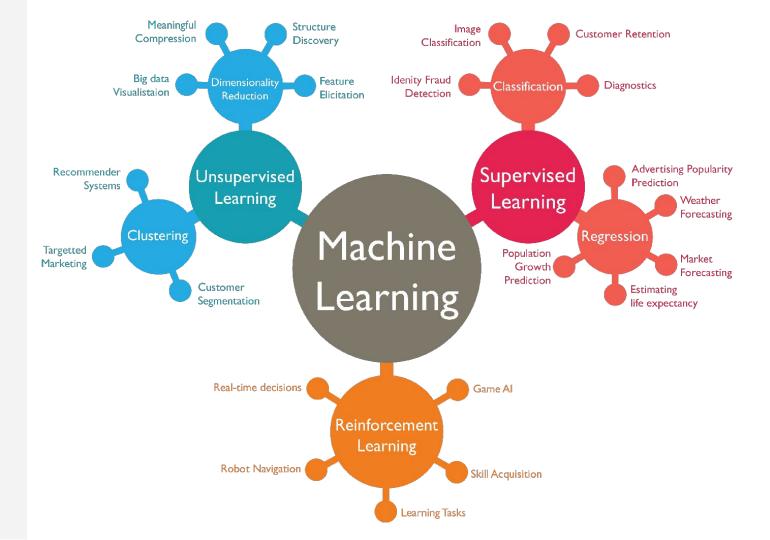


Linked profile

Thank You Q&A



Disruptive Tech









https://robohub.org/deep-learning-in-robotics/



The Solution

Fulfilling customer orders 24/7 without human interaction









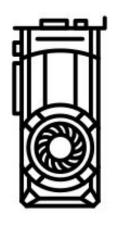
Automation is must for customer fulfilment: Meeting customer demands
within e-commerce requires increased adoption of warehouse automation
solutions to keep costs and operational complexity in check. Online retailing is
fundamentally a logistics business driven by margin improvement from cost
reduction in inventory management, order fulfilment and delivery capabilities.



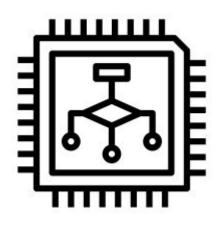
Disruptive Tech



Vision



GPU

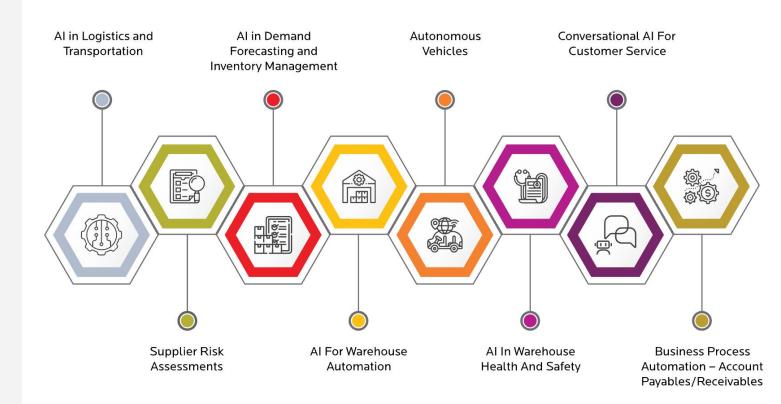


ML Algo





Edge & Cloud computing





Market

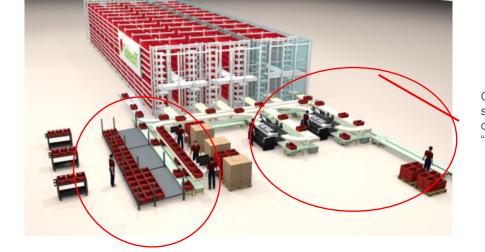
FINANCIAL TIMES



According to CSR, retailers incur a pure loss of \$5 to \$15 on every manually picked online grocery order. The loss gets gets worse when the number of online orders increases.



Competition & External Forces



Good-to-human pick&pack solution. Large footprint & conveyor system.
"Bin to bin" pick&pack

VS

