Introduction To Computer Vision & Deep Learning

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Let Me Introduce My Self

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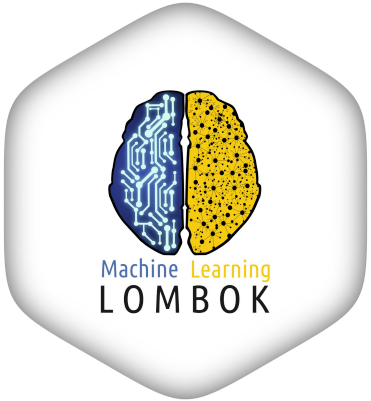

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Computer Vision

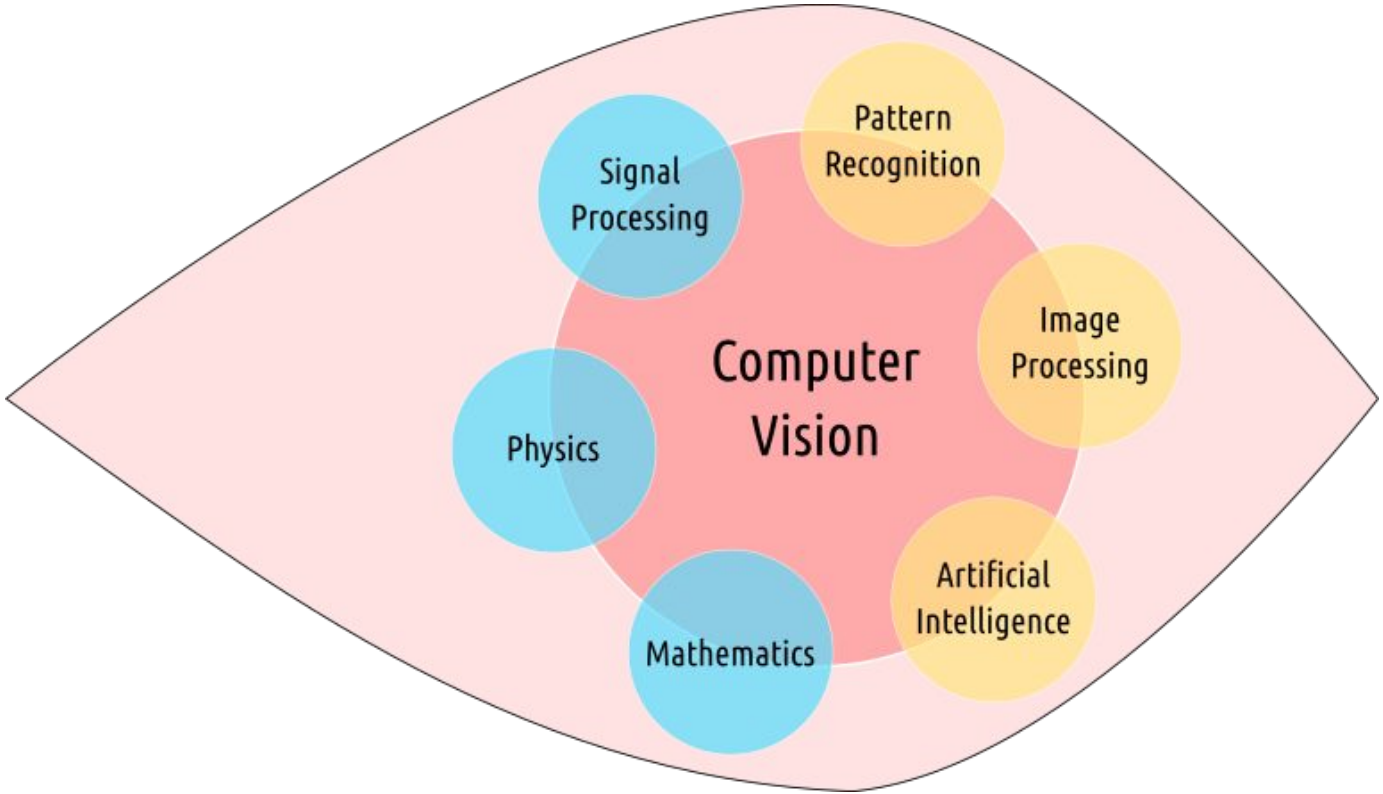
What Is It?

Computer vision is an interdisciplinary field that deals with how computers can be made for gaining high-level understanding from digital images or videos. From the perspective of engineering, it seeks to automate tasks that the human visual system can do.[1][2][3]

https://en.wikipedia.org/wiki/Computer_vision#cite_note-Sonka-Hlavac-Boyle-2008-3

The Ability for Computer to See

In simple term

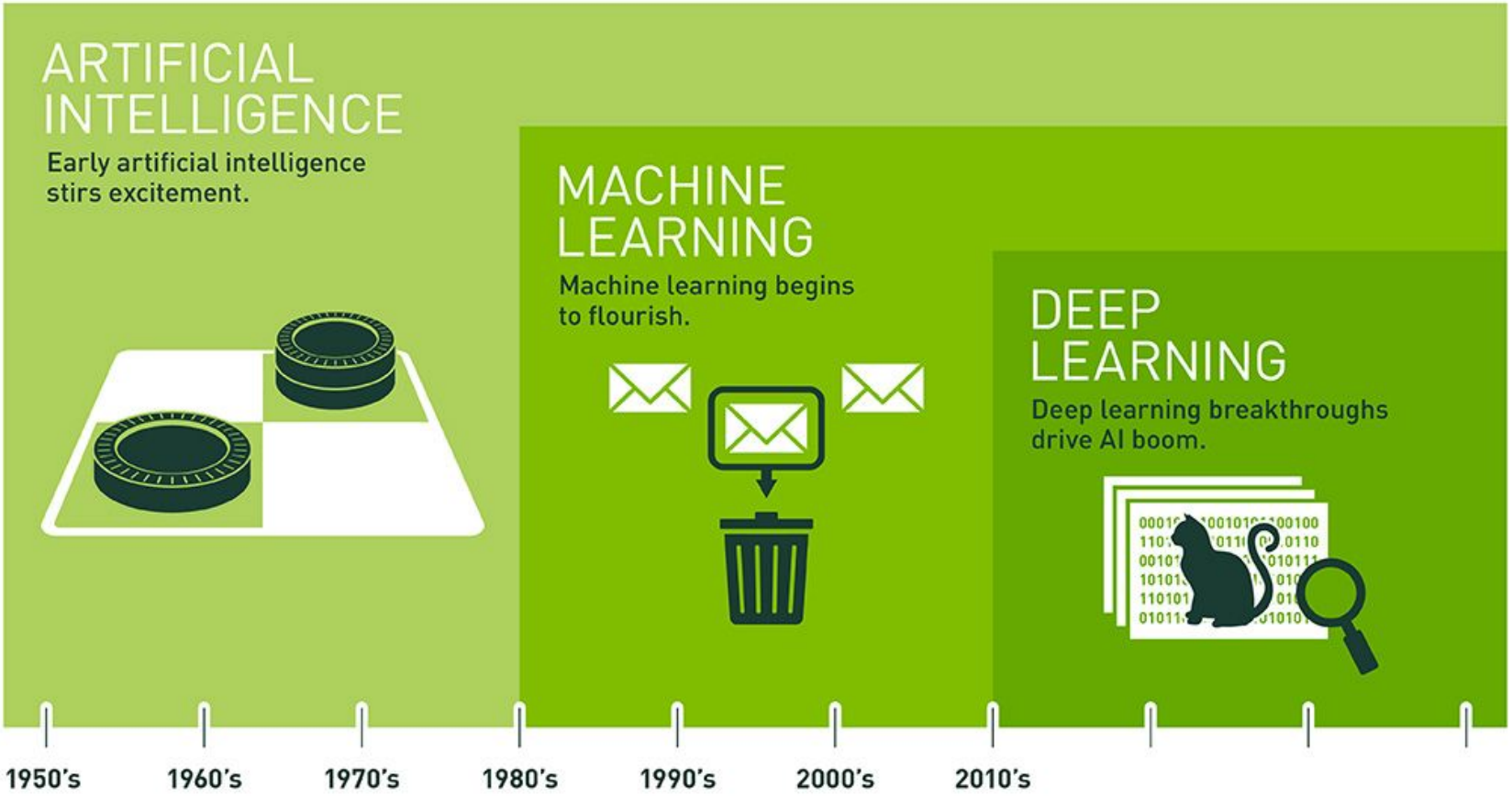

Computer Vision
Signal Processing
Pattern Recognition
Image Processing
Physics
Artificial Intelligence
Mathematics

Deep Learning

What Is It?

Deep learning (also known as **deep** structured **learning** or hierarchical **learning**) is part of a broader family of **machine learning** methods based on **learning** data representations, as opposed to task-specific algorithms. **Learning** can be supervised, semi-supervised or unsupervised, or reinforcement.

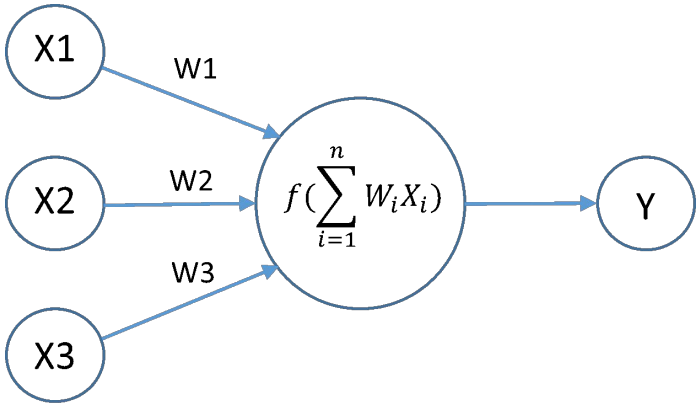
https://en.wikipedia.org/wiki/Deep_learning#cite_note-BENGIO2012-1

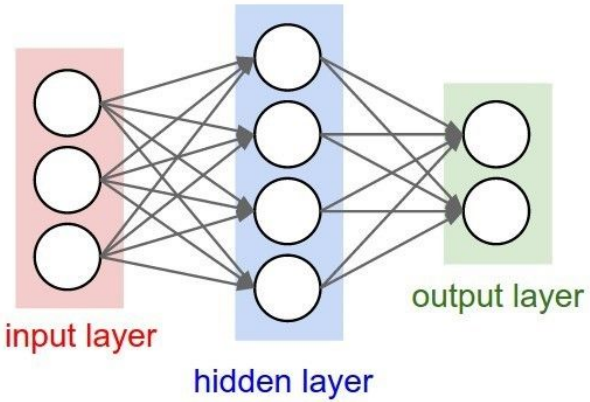


Since an early flush of optimism in the 1950s, smaller subsets of artificial intelligence – first machine learning, then deep learning, a subset of machine learning – have created ever larger disruptions.

It is Artificial Neural Network

In simple term


X1
W1
X2
W2
W3
X3
$f(\sum_{i=1}^{n} W_i X_i)$
Y


input layer
hidden layer
output layer