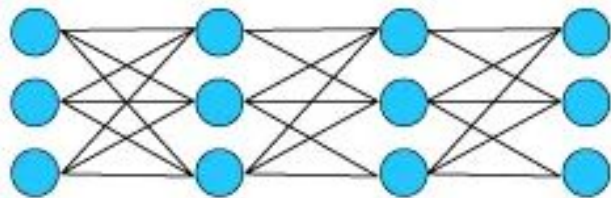
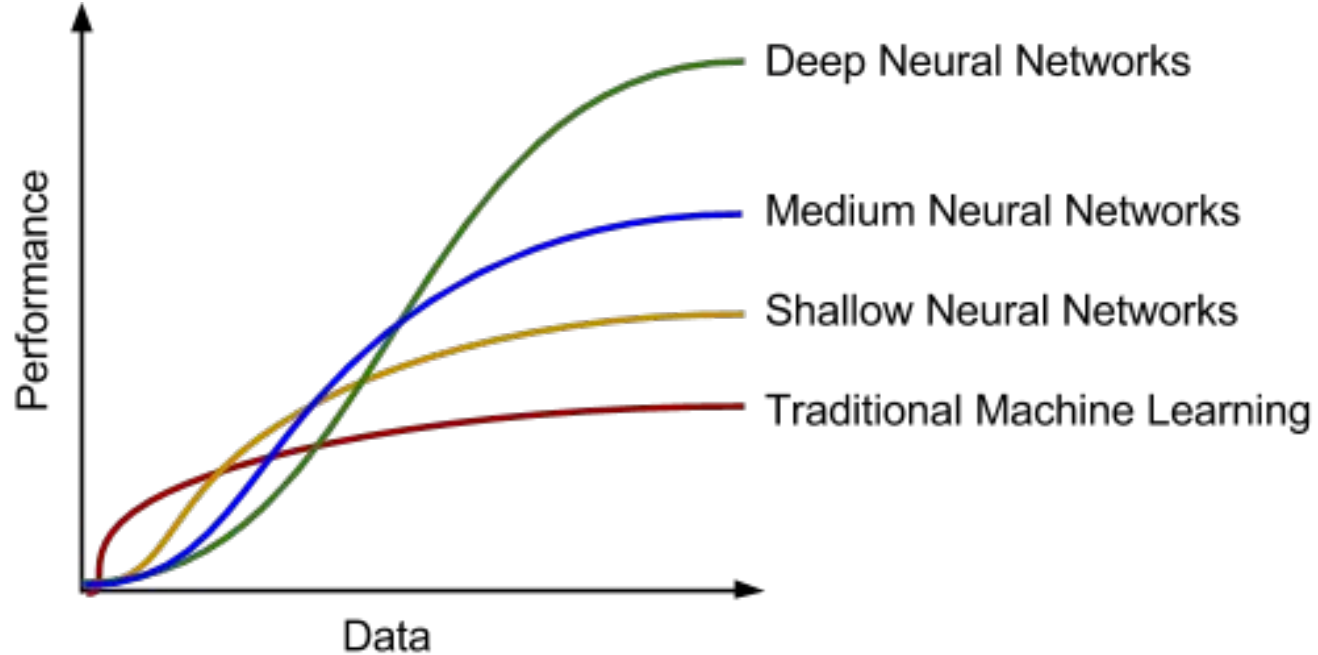


Deep Learning

= Training Deep Neural Networks

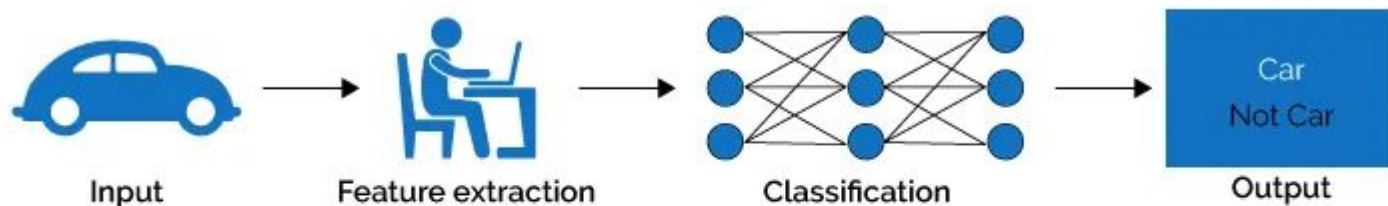


ML vs DL

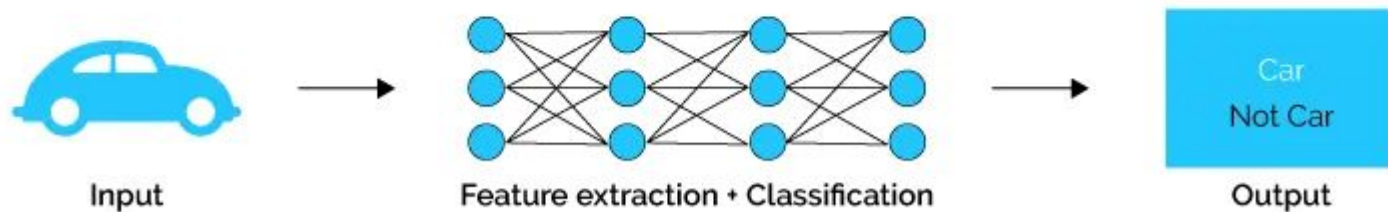


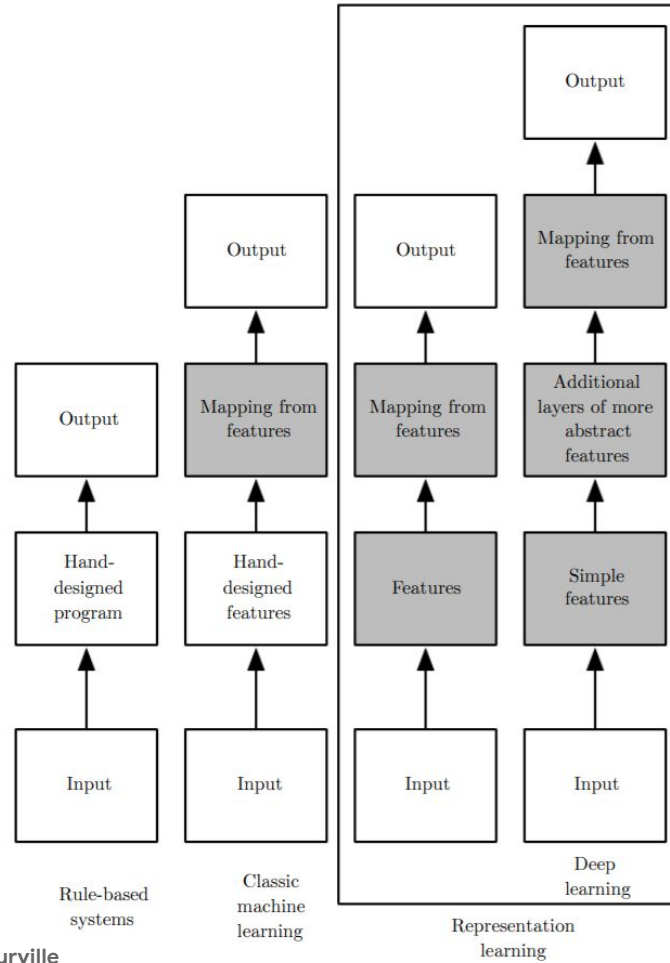
ML vs DL

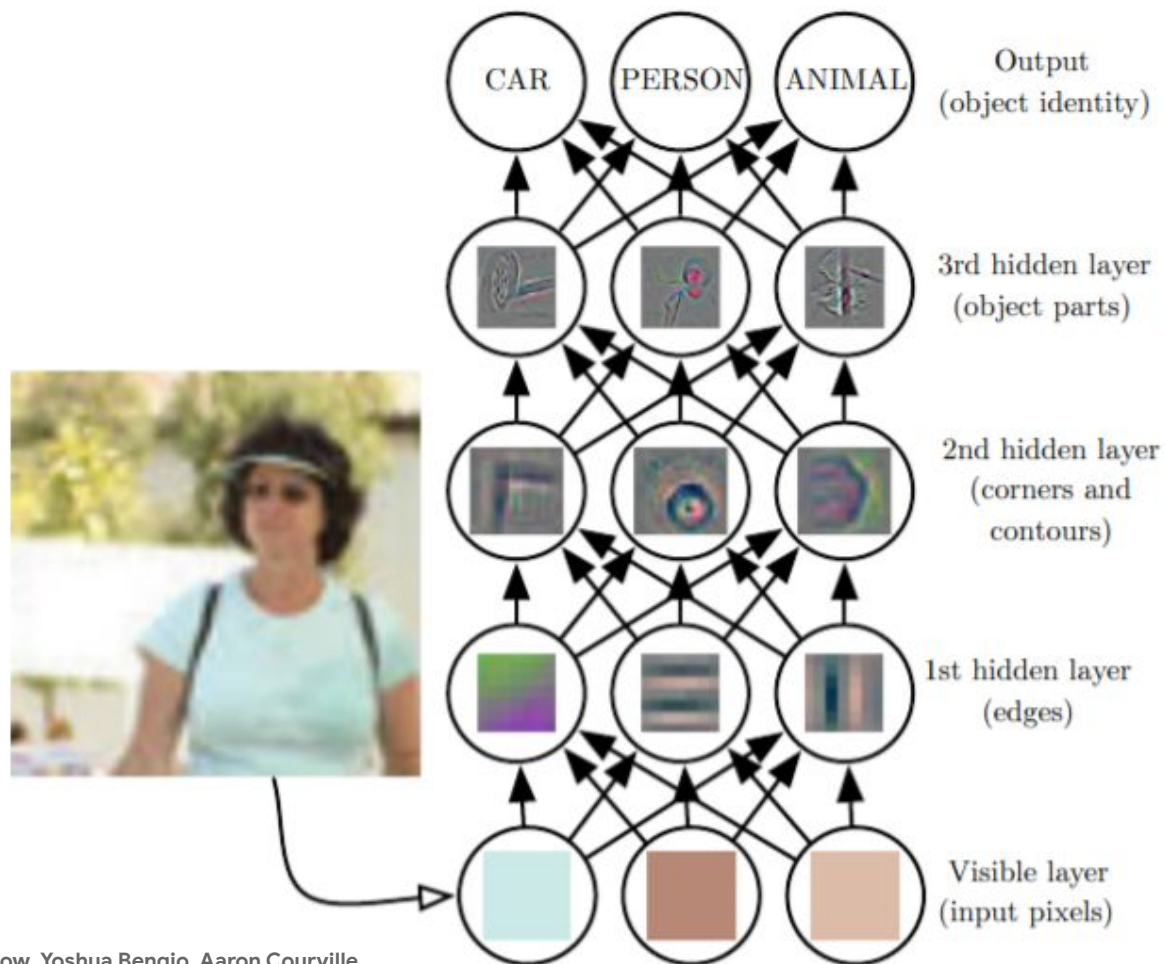
Machine Learning



Deep Learning





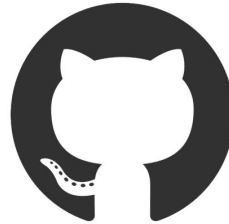


In general,

**MORE LAYERS = MORE FEATURE
ABSTRACTIONS**

Why Deep Learning **NOW**?

- Data
- Hardware
- Community



TEXT-to-SPEECH

SPEECH RECOGNITION

IMAGE RECOGNITION

GAME PLAYING

MEDICAL DIAGNOSIS

DIGITAL ASSISTANCE

RECOMMENDATION SYSTEM

SELF DRIVING CARS

FACE RECOGNITION

Training a neural network

Repeat for n epochs :

- Forward Propagation
- Loss Calculation
 - Cross Entropy
- Backpropagation
 - Gradient Descent

$$\sum_{i=1}^m (w_i x_i) + bias$$

