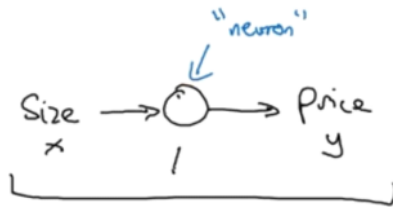


Wk1 - Intro to Deep Learning

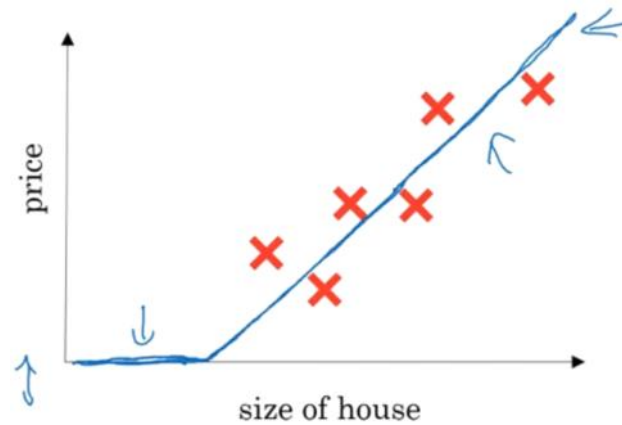
Sunday, May 20, 2018 10:50 PM

What is a Neural Network?

Made up of neurons.



Screen clipping taken: 5/20/2018 10:58 PM



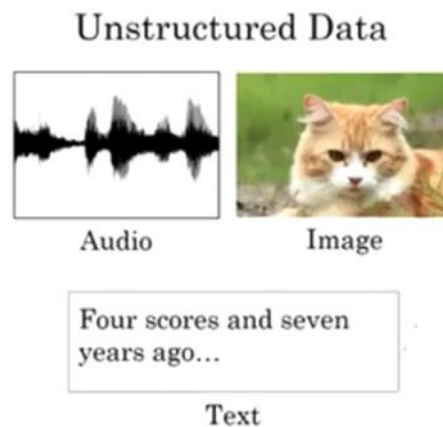
With some activation function such as the ReLU (Rectified Linear Unit) activation function.

Supervised Learning with Neural Networks

Structured Data

Size	#bedrooms	...	Price (1000\$)
2104	3		400
1600	3		330
2400	3		369
...
3000	4		540

User Age	Ad Id	...	Click
41	93242		1
80	93287		0
18	87312		1
...
27	71244		1

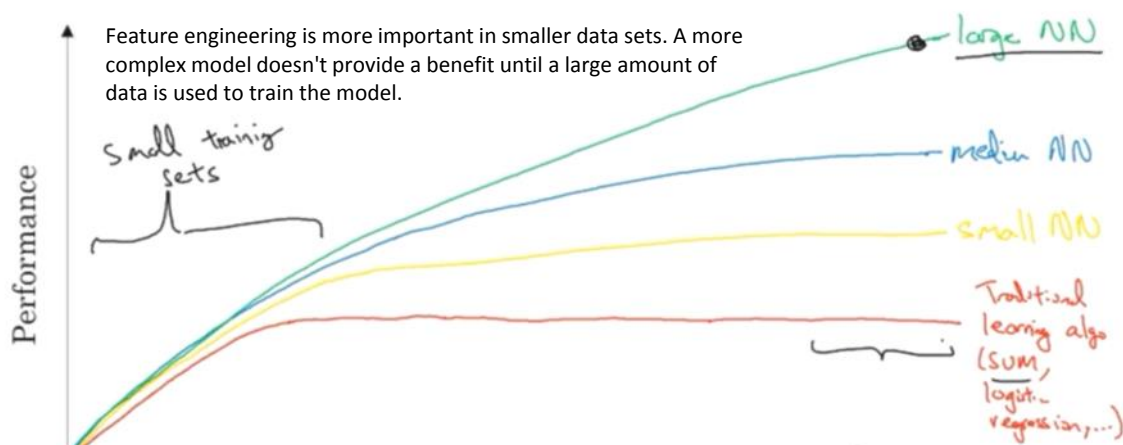


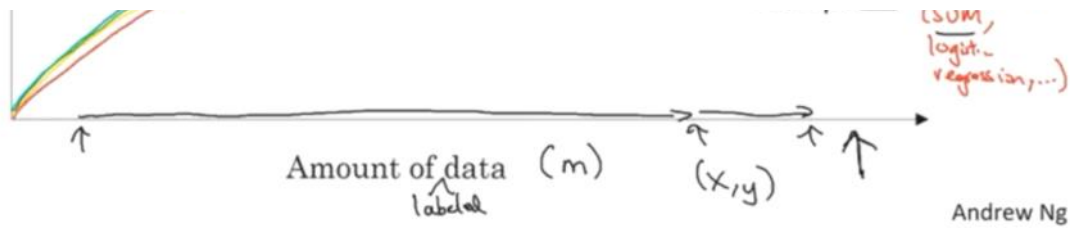
Historically, computers struggled with unstructured data. Advances in deep learning (CNN, RNN, LSTM) are changing that.

Why is Deep Learning Taking Off?

1. Data.
2. Data.
3. Computation
4. Algorithms

Scale drives deep learning progress





Heroes of Deep Learning - Geoffrey Hinton Interview

Generative adversarial nets may be one of the biggest breakthroughs in unsupervised learning.

Wk2 - Neural Networks Basics

Monday, May 21, 2018 10:43 AM