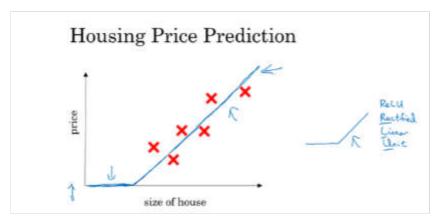
第一周深度学习概论

what is neural network?

example 1 - housing price prediction

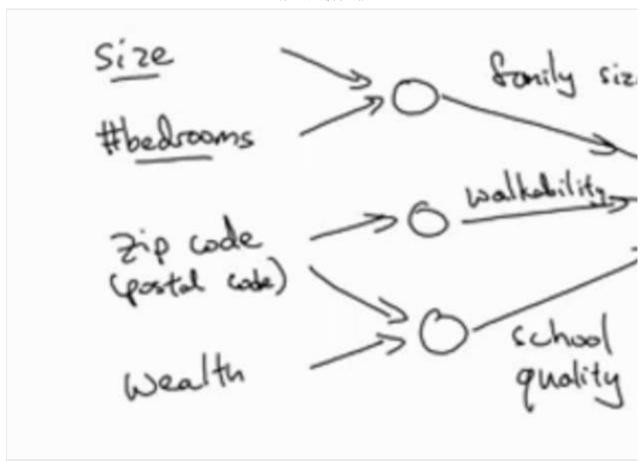


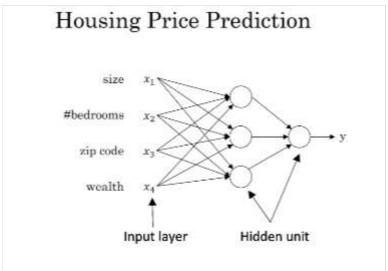
the neuron(神经元)implements the function ReLU(retified linear unit) 修正线性回归

example 2 - multiple neural network

the price of a house can be affected by other features such as size, number of bedrooms..

by stacking together a few of the single neurons -> we have larger neural network





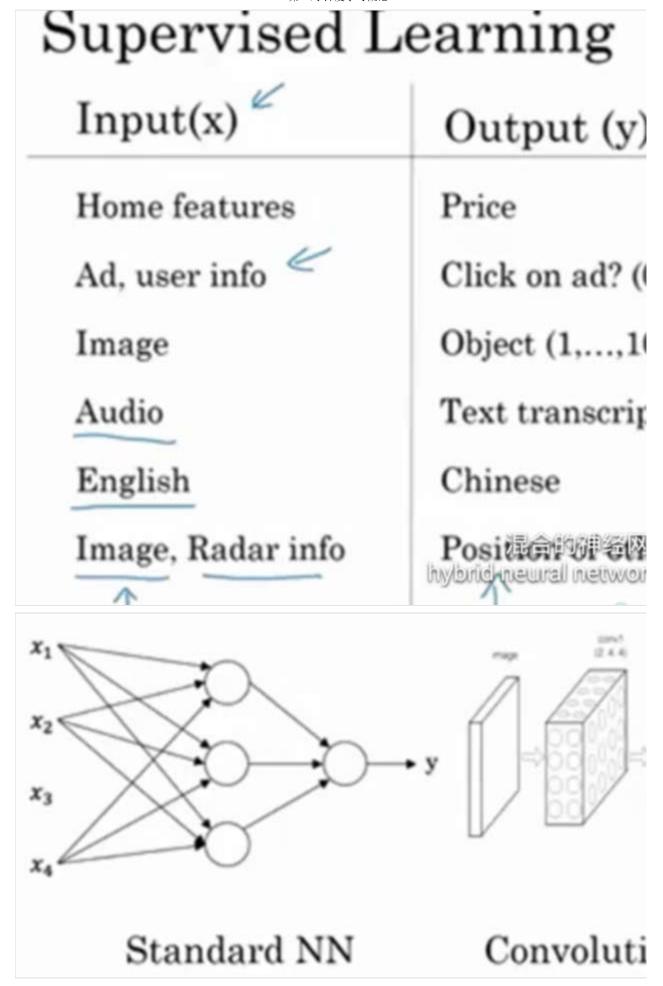
supervised learning for neural network

supervised learning:

structure data(excel) unstructured data(video, image)

photo->cnn time->rnn autodrive->mix nn

thanks to neuron network, computers are now much better understanding unstructured data.

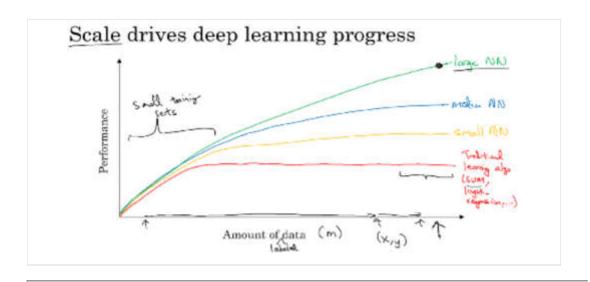


why is deep learning taking off

two reason: 1)train a big enough neural network 2) a lot of data(labeled)

scale is important

in small data ,the performance depends much more on your skill at hand engineer features



about this courses

Outline of this Course

Week 1: Introduction

Week 2: Basics of Neural Network programming

Week 3: One hidden layer Neural Networks

Week 4: Deep Neural Networks