Deep learning

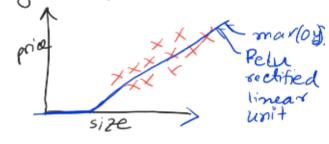
Deep learning refer to train newad networks.

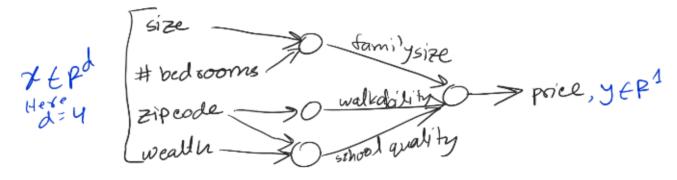
simplest neural network: Predicting house poice baced on size

using some kind of regression.

size price (y).

fig: Single neural network

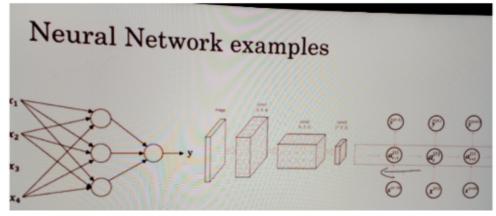




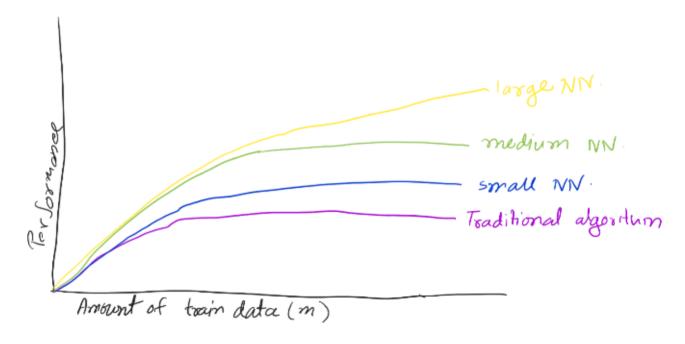
in practice individual neurons in a neural network doesn't analyze a predefined feature-each neuron behaves based on train data. And each neuron taken all input.

Types of newal network:

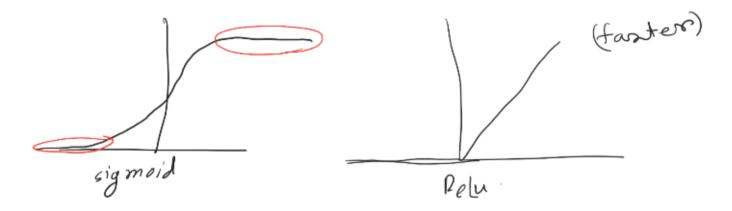
standard neural network (NN) > Home feature, Add, wer into convolution neural network (CNN) > Photo tagging, speech acognition featurent neural network (RNN) > Andro, translation clustral hybrid > Position of car.



why neural networks.



Activation function of NN:



The problem of sigmoid is the gradient descent at the red section is nearly zero so the learning in that rigon becomes really slow. Because if we use gradient descent & gradient change slowly than learning is also slow.

In Pelu tre gradient is one for all positive value