

Deep learning.

PAGE
DATE

* Neural Networks & Deep learning.

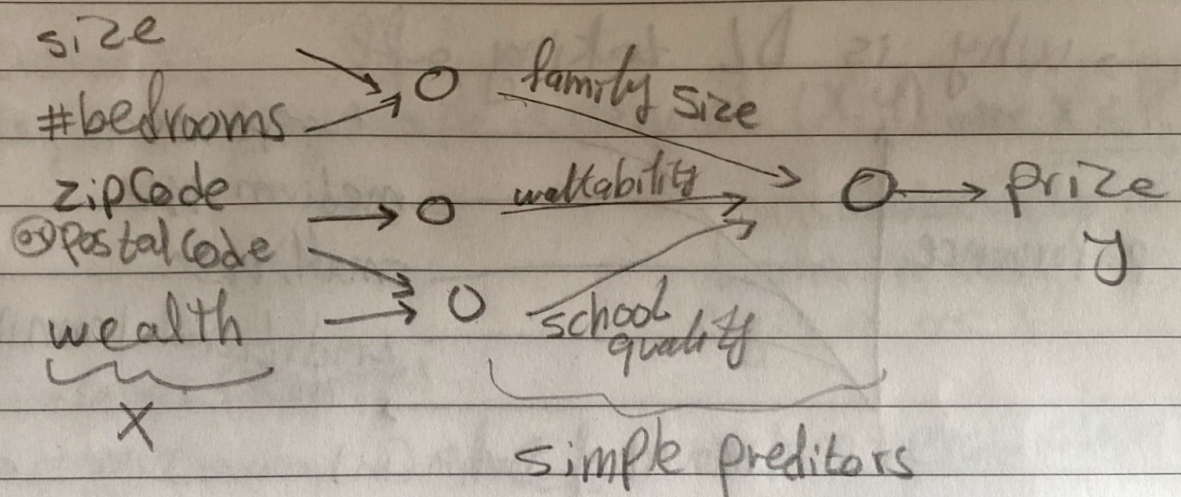
→ week 1: intro

→ what is a Neural Network.

size x → \bigcirc neuron → Price y

implement for ex: linear fun.

• Relu (Rectified linear unit).



• each neuron @ hidden layer takes input all four input features

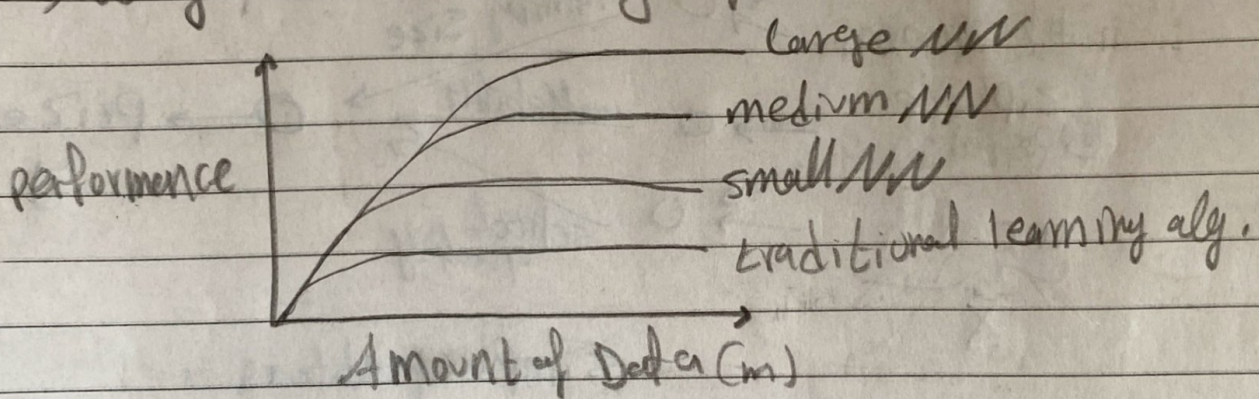
→ Supervised learning with neural network.

- Standard NN
- Recurrent NN (RNN)
- Convolutional NN (CNN)

- Structured Data
 - Data based on Data
 - ① expressed in tables

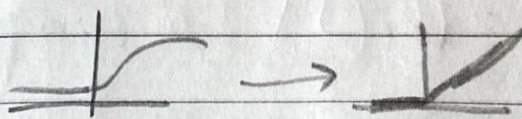
- Unstructured Data
 - audio, image where i want to recognize text in the image
 - text.

→ why is DL taking off



- Scale drives deep learning progress & By scale we means having many hidden units, connection, parameters & The scale of data

- one of the things that led to the great development of neural networks was the change from sigmoid to relu



- The change was Bec. the learning was slow
- This change causes gradient descent runs much faster