

DEEP LEARNING

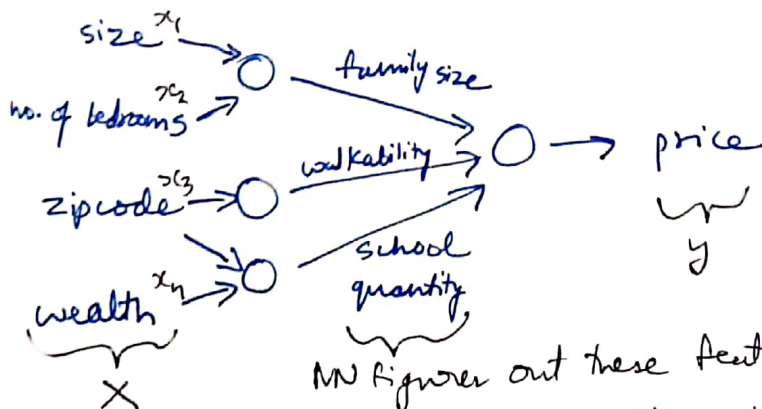
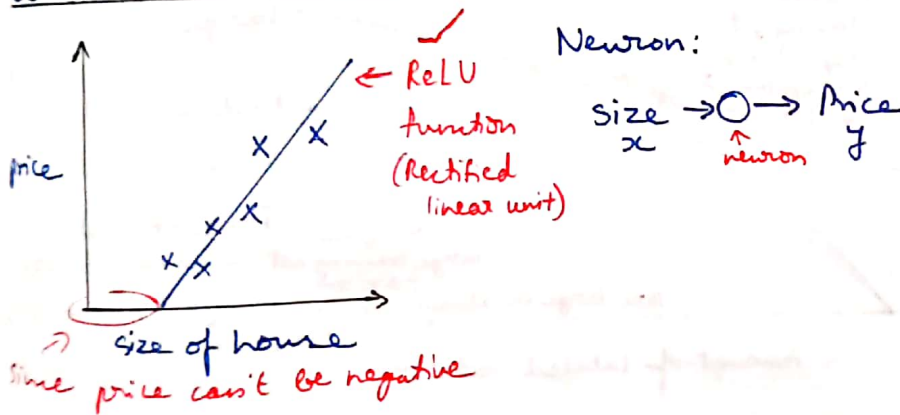
Courses:

1. Neural Networks and Deep Learning
2. Improving Deep Neural Networks : Hyperparameter tuning, regularization and optimization
3. Structuring Machine Learning Projects
4. Convolutional Neural Networks
5. Sequence Models

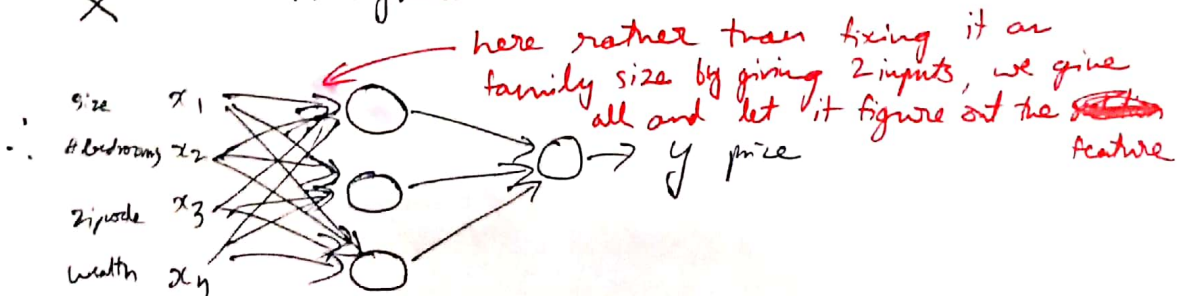
Course 1: Neural Networks and Deep Learning

WEEK 1: INTRODUCTION

What is a neural network:



NO figures out these features on its own



Supervised learning with NN:

input (x)	Output (y)	Application
1. Home features	Price	Real Estate
2. Ad, user info	Click on ad? (0/1)	Online Advertising
3. Image	Object (1, ..., 1000)	Photo tagging
4. Audio	Text transcript	Speech recognition
5. English	Chinese	Machine translation
6. Image, Radar info	Position of other cars	Autonomous driving

} Standard NN
} CNN
} RNN
} Sequencing hybrid NN

Structured data: tables

Unstructured data: Audio, image, text

Why is Deep Learning taking off?

Note: If you want to use a large NN, make sure you have that much data.

