Week 1 - Introduction to Deep Learning

Saturday, July 25, 2020 4:02 PM

1) What is a Neural Network

· Simplest neural Network

Linear Regression (st. line)

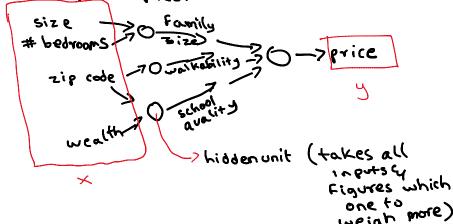
ReLU

(Rectified Linear Unit)

Price

XXX

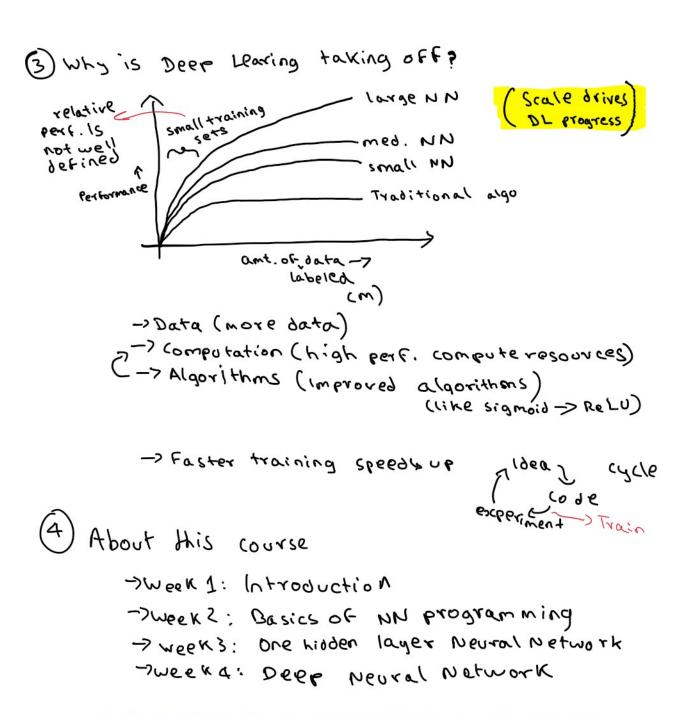
· eg: House price prediction



(2) Supervised Learning with Neural Networks

Input(x)	Output (y)	Application	
Home features	Price	Real Estate	Standard
Ad, user info	Click on ad? (0/1)	Online Advertising	NN
Image	Object (1,,1000)	Photo tagging	CNN
Audio	Text transcript	Speech recognition	RNN
English	Chinese	Machine translation	
Image, Radar info	Position of other cars	Autonomous driving	(ustom Hybrid

Structured	Data (Unstructured data
Size # bedvoon	Price	Avilo, Image, Text



Q: What is the correct technique of entering a numeric answer to a text box question? A: Coursera's software for numeric answers only supports '.' as the decimal delimiter (not ',') and require that fractions be simplified to decimals. For answers with many decimal digits, please use a 2 digits after decimal point rounding method when entering solutions if not mentioned in the question.

Q: What is the correct technique of entering a 1 element matrix ? A: They should be entered as just the element without brackets.

Q: What does a A being a 3 element vector or a 3 dimensional vector mean? A: If not described a vector as mentioned in the questions is $A = \begin{bmatrix} element1 \\ element2 \\ element3 \end{bmatrix}$.

Q: I think I found an error in a video. What should I do? A: First, post it on the Errata forum. We will try to implement your feedback as soon as possible. You could also send us an email at feedback@deeplearning.ai.

Q: My quiz grade displayed is wrong or I have a verification issue or I cannot retake a quiz. What should I do? A: Contact learner support. These queries can only be resolved by learner support and it is best if they are contacted directly. Do not flag such issues.