Introduction to Deep Learning

source : deeplearning.ai

Supervised Learning with Neural Networks

Supervised Learning

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Output (y)	Application
Price	Real Estate Stoubl
Click on ad? (0/1)	Online Advertising
Object (1,,1000)	Photo tagging 3 CNN
Text transcript	Speech recognition } KNN
Chinese	Machine translation
Position of other cars	Autonomous driving Custan/
	Price Click on ad? (0/1) Object (1,,1000) Text transcript Chinese

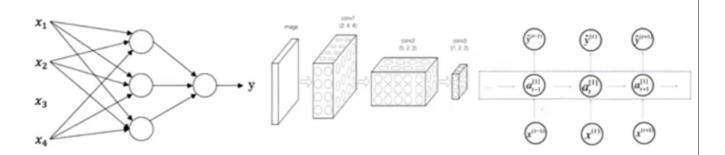
1、2: Standard NN

3: CNN

4、5: RNN

6: Custom/Hybrid Neural Network 混合模型

Neural Network examples



Standard NN

Convolutional NN

Recurrent NN



一维序列化数据也许就是时序数据

Supervised Learning

Structured Data

	1	V		
	Size	#bedrooms	***	Price (1000\$s)
Ī	2104	(3)		400
ı	1600	3		330
ı	2400	3		369
ı	1			1
l	3000	4		540

V	V	\checkmark
User Age	Ad Id	 Click
41	93242	1
80	93287	0
18	87312	1
:	1	1
27	71244	1

Unstructured Data





Audio

Image

Four scores and seven years ago...

Text