1. Introduction to Deep Learning ¶

Supervised Learning

Input(x)	Output (y)	Application	
Home features	Price	Real Estate	} Standard NN
Ad, user info	Click on ad? (0/1)	Online Advertising	
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	} Custom/ Hybrid

Scale drives deep learning progress

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