

Supervised Learning:

→ It is the algorithm where at first you give it some example first to teach it that, for some of the input x here are some output label y . Now learn from those example. after that if some new input given to it then it will predict the output based on the learning.

some examples:

Input (X)	Output (Y)	Application
email →	spam? (0/1)	spam filtering
audio →	text transcripts	speech recognition
English →	Spanish	machine translation
ad, user info →	click? (0/1)	online advertising
image, radar info →	position of other cars	self-driving car
image of phone →	defect? (0/1)	visual inspection

If I take email example, at first we will train the algo with bunch of email with labels that will tell whether the email is spam or not and then we train the algo with those data. After that we will have the application of spam filtering. That will take all emails come to me and filter them based on previous learning.

Regression: Housing price prediction



