

Classification \neq regression

predicts finite categories

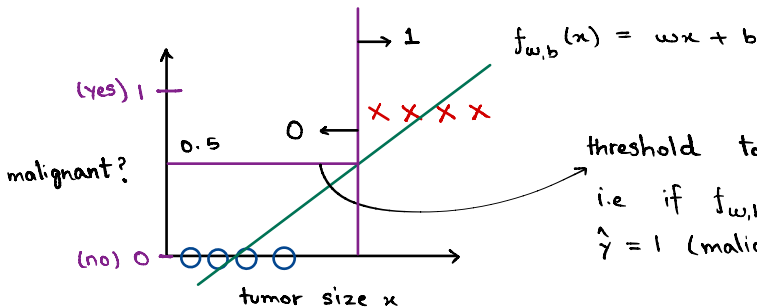
predicts numbers not categories from infinite outputs.

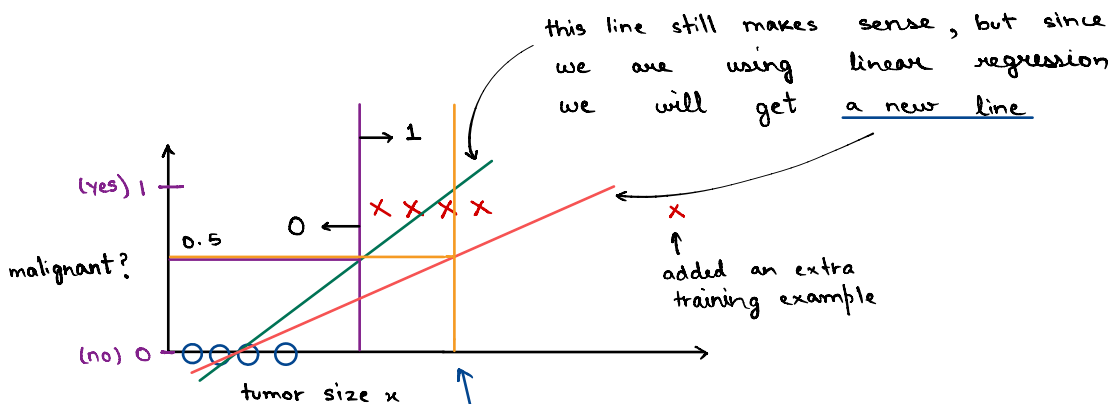
eg. binary classification \rightarrow two outputs

Question	Answer "y"	
Is this email <u>spam</u> ?	no	yes
Is the transaction <u>fraudulent</u> ?	no	yes
Is the tumor <u>malignant</u> ?	no	yes
	0	1
	false	true

negative class
 \neq bad
 absence

positive class
 \neq good
 presence





ideally any point left of this decision boundary should be non malignant and to the right should be malignant but its not.

decision boundary has been shifted due to new line.

X clearly when the tumour is large it should automatically be malignant