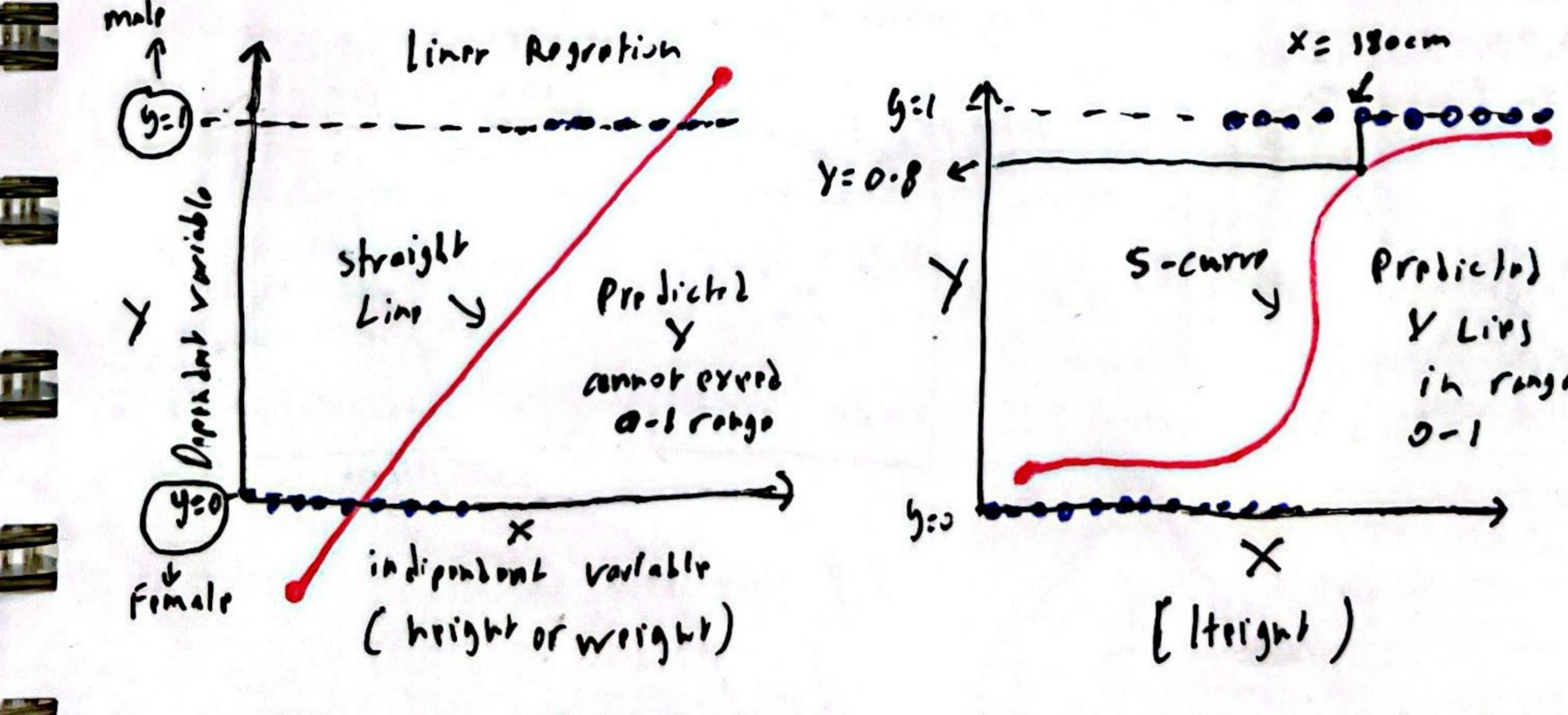
Logistic Regression (-supervised learning)

- is a varient of linear regretion and is a Classification algorillm. instru of fitting a line to 2 vars, with a linear relationship, we now predict a catigorical output variable using cutigorical or numerical input variables.

2 A Ex lets say we want to predict one of 2 classes for tex the gentler of a person bosed on height or weight be ex a liner regretion dose not make souse as this is classification problem ;. Now instrict of a like me fit a sigmod curre to the dala The equation will not tell us about a liner relationship between 2 mass but will tell us 1: prebibility of a dot point falling into a certal class given volve of in put variable.



[Iteignt)

* sigmoid function

III

* TEX the Liklyhood of a person with height Boom being a man is 80%

This fast is imposibly with a strait line (linear) as the propositify disterbution would because the line to bend and curve to much the probability distribution 20 Offernish X is not accurate

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