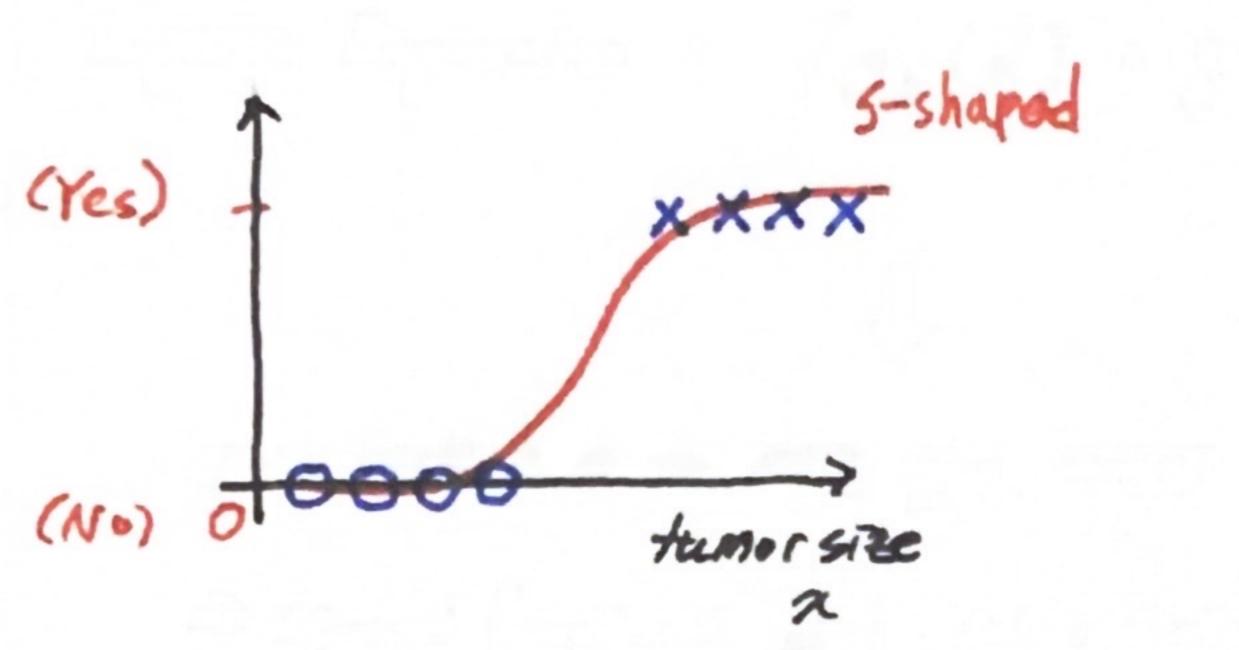
## 

(Logistic Rognession)

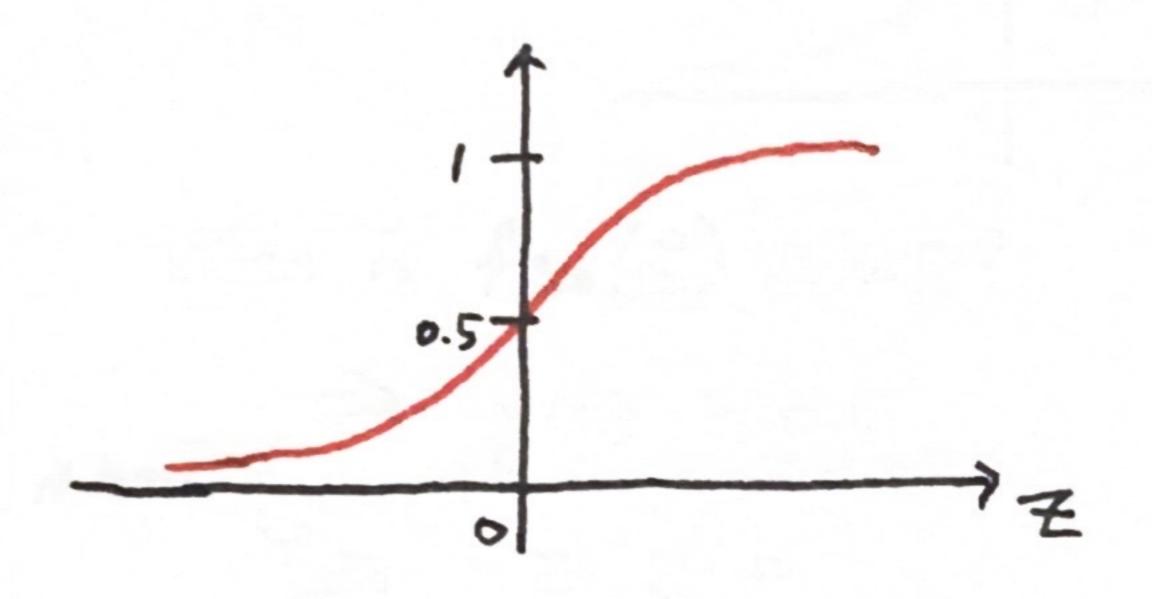


Logistic Regression is fit a curve to data set (5-shapped)

To build to make outputs of logistic agression model that have only 2 and 1 (charification) between sigmoid function (logistic function)

( Sigmoid function )

- Logistic Respossion of hypothesis outpute out 1 Holes with 252 193
- 이는 가능하게 라면서 바보기능한 라우나 sigmoid function



sigmoid function:

- sigmoid function의 군에 고에 관한 화를 대화하다 hypothesis고 반는다 治.

linear regressionel hypothesis = customes ...

D Linear regression lypothesis: file(2) = v. 2+b

日そのはい: を一が、え十日

3) Z= signoid functional ches:

$$f_{2,b}(z) = g(z) = \frac{1}{1+e^{-z}} = \frac{1}{1+e^{-(\sqrt{x}\cdot z^2+b)}}$$

Logistic Regression Model"

(Interpretation of logistic regression output)

=> "probability" that class is I

국 주이진 feature 가 고갑악대 output의 doss가 1일학호 카슈(之) = P(y=1|z; 河,b)

= Probability that output 4 is 1, given impat 2, with parameters w.b

(ex) for (Z)=0.7

1=(4=0)+P(4=1)=1

= output of 12] 引起:力0%, 00] 引起:30%