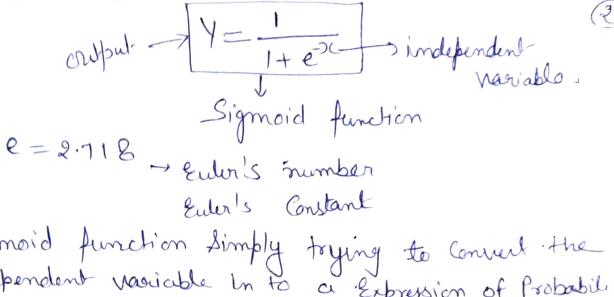
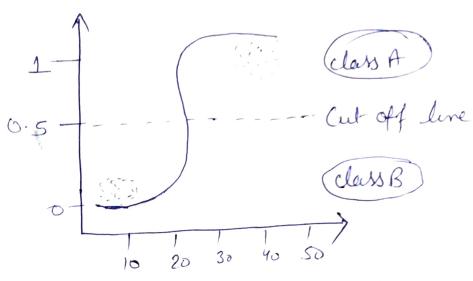
hagistic Regnersion + hogistic regression is a Supervised classification algorithm that only takes discrete value as input.

Lociutic Romanion is used When hagistic Regnerien is used When the dependent variable is Categorical. Desposse me have a mossile, and How leng is the user active on that website. and Whether on add on that website clicked or net. clicked on Ads (4) Time (x) No 68-95 NO 80.23 NO 69.45 NO 74.15 50.0 yes 55.5 80.0 NO -> Categorical 70.5 Tout / telse Positive | reguline Pars | fail me will use logistic So in Categorical date.



Sigmoid function simply trying to convert the independent variable in to a Expression of Probability that ranges between o le 1 · with respect to the dependent variable.



Some data Points are awailable obenue the cut off line and Leme are below the cut off line and Leme are divided in to classif & classif Probability in y axis -> between O & 1.

O -> there is No Posibility | No Probability of occurance of there is Contain Posibility of occurance.

A -> there is Contain Posibility of occurance.

A class Cent with 0.5 Probability that are recipient in the form of they have

No class.

Ahen dater Set that are on the chiloff 3 dine known as un classifible data set. unclassifible is in varu Case. Application of logistic regression \* frond detection \* disease diagnosis \* Remergency detection \* Sparm, No Sparm (Mail) When you are using lægistic regression Some Points are important. 1) Data set their yen considered it should be free of Missing value 2) How Much data points are ameilable in data set for using lagistic negression. \* 30 to 50 data Point for Each output. \* fer binary lagistic regression. Binary - Means - 2 class - 2 critical variable 30 toso 50 60-100 data Points. total in this