1991STIC KEGRESSION
Used when prediction target is categorical -> Spam vs ham -> Boy or Cirl Logistic regression values are bounded from 0 to
E.g. SPAM us HAM Output: Opo 1 (probability) Hypothesis: Z = WX+B Sigmoid Funct Vite
$n\theta(x) = sigmoid(z)$ lim = 1 lim = Types of Logistic Regression. 2-100
1. Binary Logistic Regression - antegorical response only has 2 outcomes. Span/Ham - antegorical response only has 2 outcomes. Span/Ham
Multinomial Logistic Regression There or move output categories eg. Black, while, bown Didinal Logistic Regression There categories with ordering e.g. movine rating 1-25 There or move categories with ordering e.g. movine rating 1-25
Percepton Decision Bonday > Used to product which class a dorton belongs to i.e. if producted value 20.5 the SPAM eice HAM
(of function) $(st(h(\Theta(x), Y(acha)) = -lg(h(\Theta(x)))f(x=0)$ $-lg(1-h(\Theta(x)))f(x=0)$