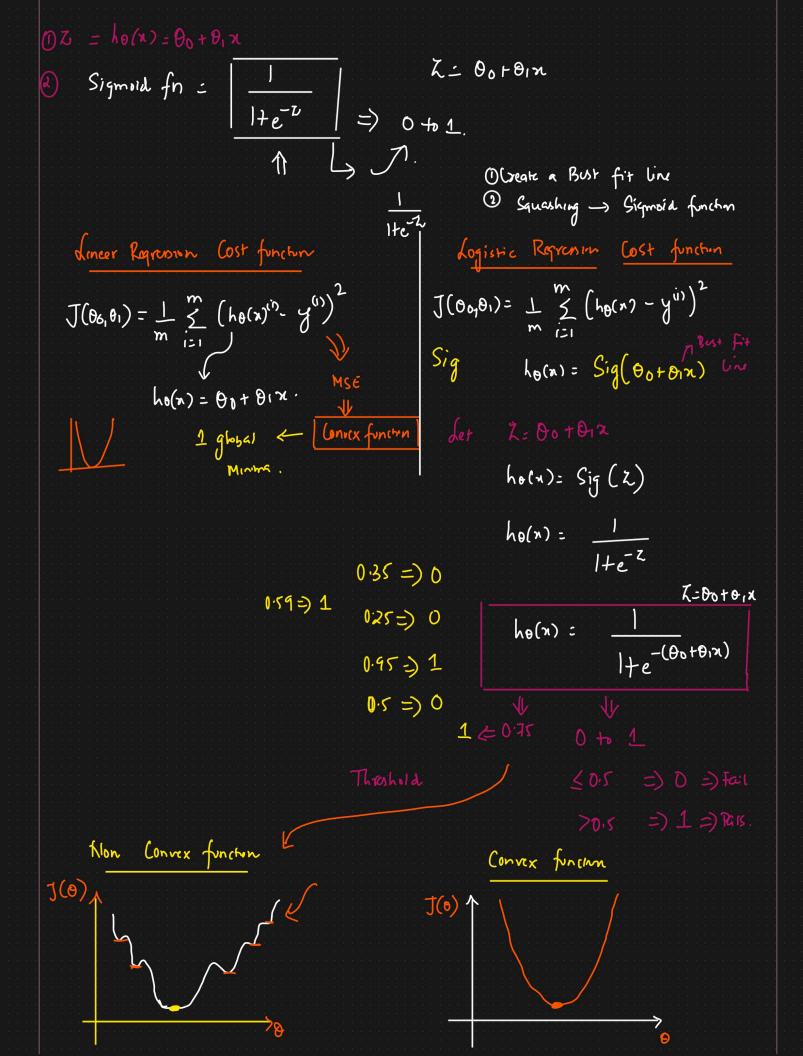
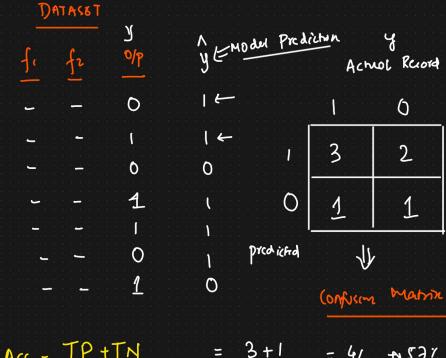
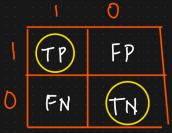
(Classifiation problem) Logistic Regression UPSC DATASET 1 0 Op (Pass/Fail) Study hours FAIL 2 O Can we colve this problem FAIL 3 FAIL 4 FAIL 5 PASS PASS PASS FAIL 9 Regression 1 750.5 >bur fit line 05 4705 0-2 3 4 5 6 7 8 Sigmoid Activation 1 ho(x)=00+0,x -) but fit line = 4





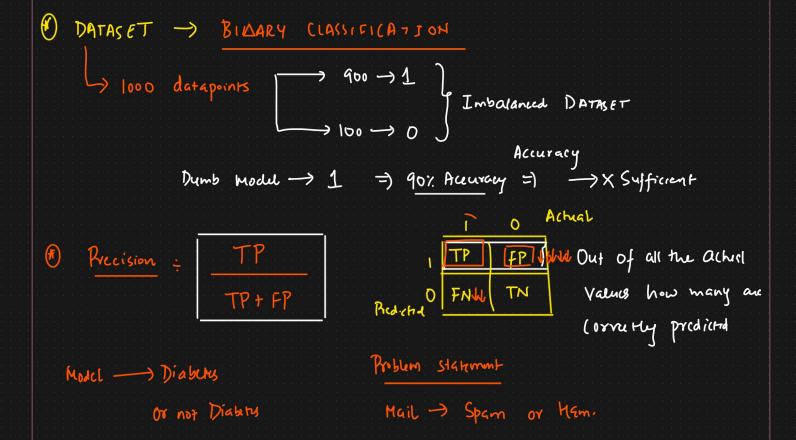


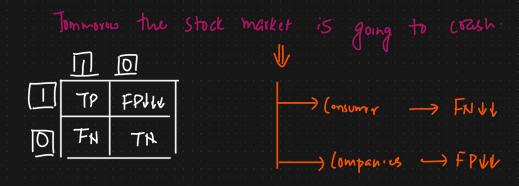


Recall =

redut

Acc =
$$\frac{TP + TN}{TP + FP + FN + TN} = \frac{3+1}{3+2+1+1} = \frac{4}{7} + \frac{5}{7} \times 57$$





① If FP and FN are both important
$$B=1$$

$$F=1 \text{ Score} = 2 \frac{P*R}{P+R}$$

2) If FP is more important than FN
$$B=0.7$$

$$F=0.5 \text{ Score} = (1+0.25) \frac{P*R}{(0.216P+R)}$$

① If
$$FN >> FP$$

F 2 Score = $\frac{(144) P*R}{(4*P*R)}$