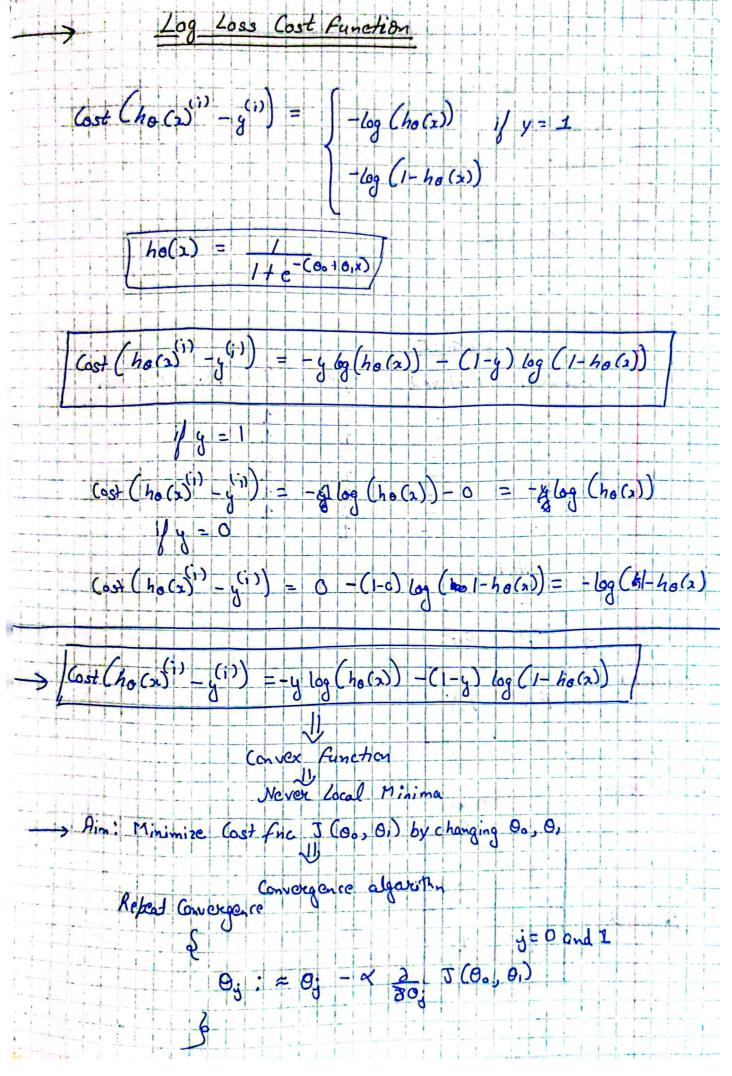


## Logistic Regression Cost Function 2(00,0) = 1 = (40(0)") - (1))2 Here ho(2) = Sig (00 +0,x) Best Fit line Sigmoid Advance Let z = 0. +0,x ho(2) = sig (2) ho(x) = 1+ 6-(00+01) 0 to 1 a limitation with this equation There There This egn will give a non-convex function. 2(0) The way to selve this problem is to change the X cast function.



## Performance Metrics

- O. Confusion Matrix
- @ Accuracy
- 3 Brecision
- 1 Recall
- 5. F Beta Scarce

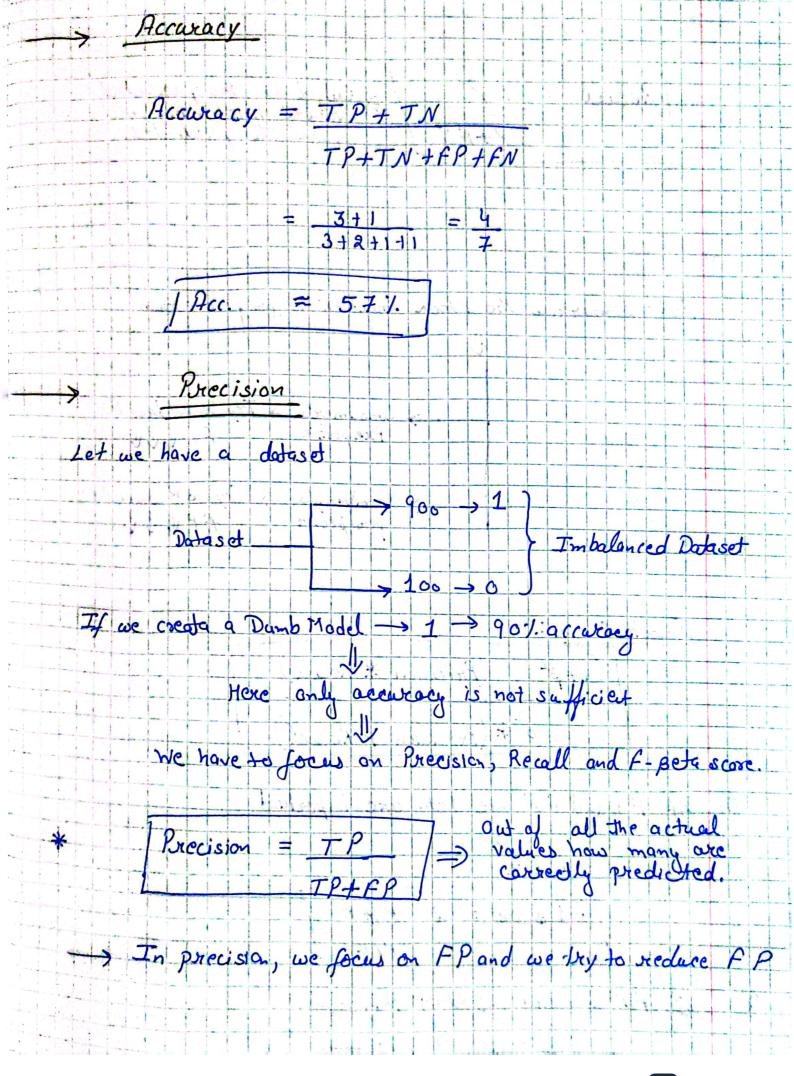
	-		NAME OF TAXABLE PARTY.
	6	1 - I N	n-Liv
-	Confus	Cn	14 DUA
	Confus		

Featurel	Feature 2	0/8
-	<del></del>	0
=	<u> </u>	1
<u> </u>	<del></del>	0
	4	1
	+14,4	11
+	_	0
-		11

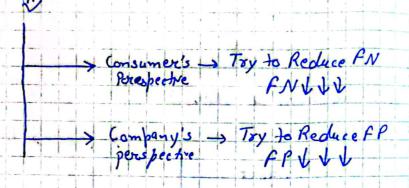
and dollars	Actual		
		1.	0
-	1	TP	FP
Predicted	0	FN.	TN
-			

Hexe,		f.	chal	
	1	3	2	
Bredicted	0	1	1	

y -> Model Prediction



> F - Beta Scare



F-Beta Scare:

(1+
$$\beta^2$$
) (Precision \* Recall)

(Brecision + Recall)

$$\beta = 1$$

$$\begin{cases} f \mid scene = 2 & p \neq R \\ p \mid R \end{cases}$$

