Roll no: 20209 00003 SUDHA DEVI

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4 Subjective Question [2 marks]

Suppose you train a logistic regression classifier and your hypothesis function h is

$$h_{\theta}(x) = g(\theta_0 + \theta_1 x_1 + \theta_2 x_2)$$

where,

$$\theta_0 = 6, \ \theta_1 = 0, \ \theta_2 = -1$$

Draw the decision boundary for the given classifier (a rough sketch is sufficient). What would happen to the decision boundary if you replace the coefficient of x_1 and x_2 ? Draw the decision boundary for the second case as well.

Solo-Given
$$h(x) = g(0.70, x, +0_2x_2)$$

and $\theta_0 = 6$, $\theta_1 = 0$, $\theta_2 = -1$
 $h(x) = g(6+0.x, +(-1)x_2)$
 $= g(6-x_2)$
 $h(x) = g(6-x_2)$

Input	Coefficient	Value 1	Value 2
	00	6	6
91,	0,	0	0
M2	02	-1	<u>—</u> [

