Back

Logistic Regression

Quiz, 5 questions

**Congratulations! You passed!**

Next Item

Question 1

Correct

1 / 1 points

**1. Question 1**

Suppose that you have trained a logistic regression classifier, and it outputs on a new example x*x* a prediction h\_\theta(x)*hθ*​(*x*) = 0.7. This means (check all that apply):

Question 2

Correct

1 / 1 points

**2. Question 2**

Suppose you have the following training set, and fit a logistic regression classifier h\_\theta(x) = g(\theta\_0 + \theta\_1x\_1 + \theta\_2 x\_2)*hθ*​(*x*)=*g*(*θ*0​+*θ*1​*x*1​+*θ*2​*x*2​).

Which of the following are true? Check all that apply.

Question 3

Correct

1 / 1 points

**3. Question 3**

For logistic regression, the gradient is given by \frac{\partial}{\partial \theta\_j} J(\theta) =\frac{1}{m}\sum\_{i=1}^m{ (h\_\theta(x^{(i)}) - y^{(i)}) x\_j^{(i)}}∂*θj*​∂​*J*(*θ*)=*m*1​∑*i*=1*m*​(*hθ*​(*x*(*i*))−*y*(*i*))*xj*(*i*)​. Which of these is a correct gradient descent update for logistic regression with a learning rate of \alpha*α*? Check all that apply.

Question 4

Incorrect

0 / 1 points

**4. Question 4**

Which of the following statements are true? Check all that apply.

Question 5

Correct

1 / 1 points

**5. Question 5**

Suppose you train a logistic classifier h\_\theta(x) = g(\theta\_0 + \theta\_1x\_1 + \theta\_2 x\_2)*hθ*​(*x*)=*g*(*θ*0​+*θ*1​*x*1​+*θ*2​*x*2​). Suppose \theta\_0 = -6, \theta\_1 = 0, \theta\_2 = 1*θ*0​=−6,*θ*1​=0,*θ*2​=1. Which of the following figures represents the decision boundary found by your classifier?