Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Go to next item

1. Which is an example of a classification task?

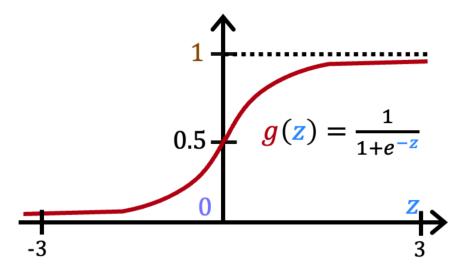
- 1/1 point
- O Based on a patient's age and blood pressure, determine how much blood pressure medication (measured in milligrams) the patient should be prescribed.
- O Based on a patient's blood pressure, determine how much blood pressure medication (a dosage measured in milligrams) the patient should be prescribed.
- Based on the size of each tumor, determine if each tumor is malignant (cancerous) or not.
 - ✓ Correct

This task predicts one of two classes, malignant or not malignant.

2. Recall the sigmoid function is $g(z)=rac{1}{1+e^{-z}}$

1/1 point

sigmoid function

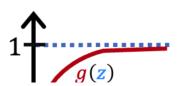


If z is a large positive number, then:

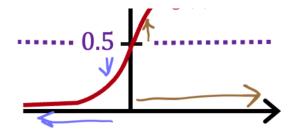
- $\bigcirc \ g(z)$ will be near zero (0)
- $\bigcirc \ g(z)$ will be near 0.5
- $\bigcirc \ g(z)$ is near negative one (-1)
- igodesign g(z) is near one (1)

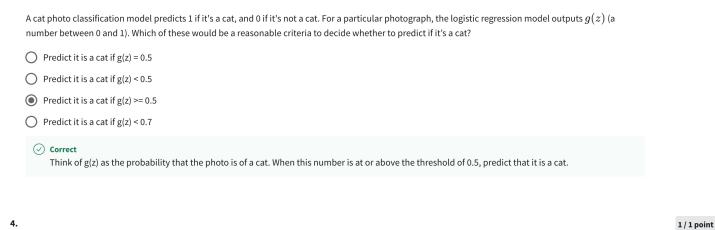
Say z = +100. So e^{-z} is then e^{-100} , a really small positive number. So, $g(z)=rac{1}{1+{
m a\,small\,positive\,number}}$ which is close to 1

3.



1/1 point





True/False? No matter what features you use (including if you use polynomial features), the decision boundary learned by logistic regression will be a linear decision boundary.

O True

False

⊘ Correct

The decision boundary can also be non-linear, as described in the lectures.