Selamat! Anda lulus!

Nilai Nilai Pengiriman diterima 100% Terbaru 100% UNTUK LULUS 80% atau lebih tinggi Pergi ke item berikutnya

- 1. Which is an example of a classification task?
 - 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 a patient's age and blood pressure, determine how much blood pressure medication (measured in milligrams) the patient should be prescribed.
 - Based on the size of each tumor, determine if each tumor is malignant (cancerous) or not.
 - **⊘** Benar

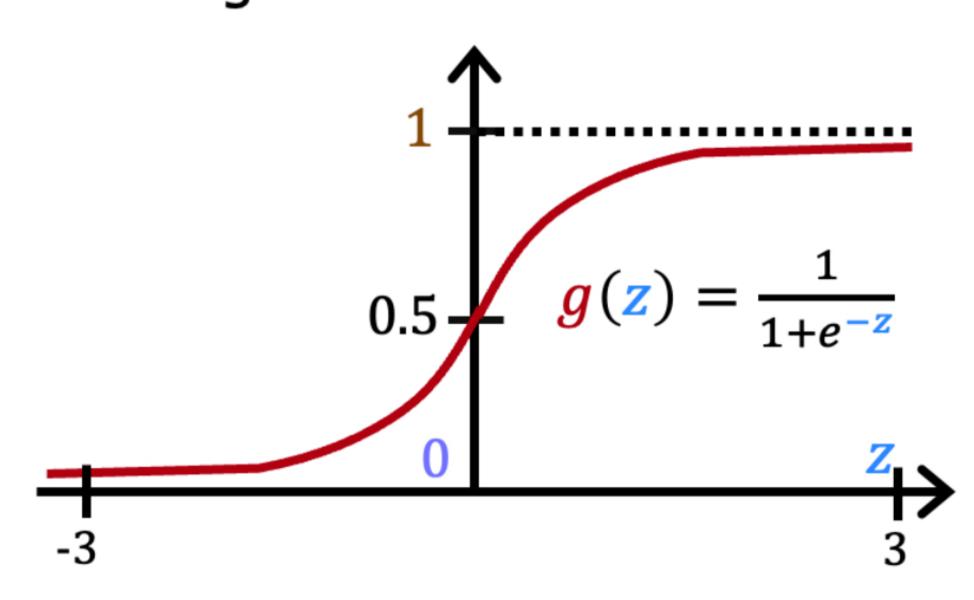
This task predicts one of two classes, malignant or not malignant.

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

1/1 poin

1/1 poin

sigmoid function

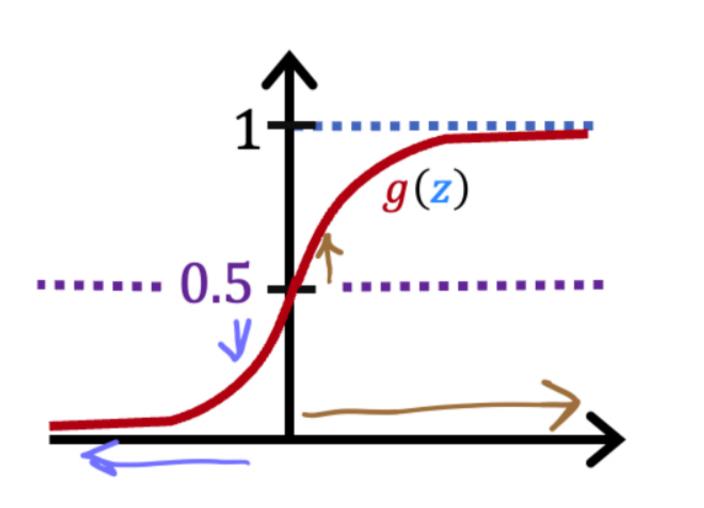


If z is a large positive number, then:

- $\bigcirc \ g(z)$ is near negative one (-1)
- $\bigcirc \ g(z)$ will be near 0.5
- igotimes g(z) is near one (1)
- $\bigcap g(z)$ will be near zero (0)
- **⊘** Benar

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

3.



1 / 1 poin

A cat photo classification model predicts 1 if it's a cat, and 0 if it's not a cat. For a particular photograph, the logistic regression model outputs g(z) (a number between 0 and 1). Which of these would be a reasonable criteria to decide whether to predict if it's a cat?

- O Predict it is a cat if g(z) < 0.7
- Predict it is a cat if g(z) >= 0.5
- O Predict it is a cat if g(z) = 0.5
- O Predict it is a cat if g(z) < 0.5
- **⊘** Benar

Think of g(z) as the probability that the photo is of a cat. When this number is at or above the threshold of 0.5, predict that it is a cat.

4.

1/1 poin

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
- **⊘** Benar

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