Kuis Bernilai • 10 min

Selamat! Anda lulus!

Nilai Nilai Pengiriman Terbaru 100% diterima 100%

UNTUK LULUS 70% atau lebih tinggi

Pergi ke item berikutnya

1. 1/1 poin

Gradient descent is an algorithm for finding values of parameters w and b that minimize the cost function J.

repeat until convergence {

$$w = w - \alpha \frac{\partial}{\partial w} J(w, b)$$

$$b = b - \alpha \frac{\partial}{\partial b} J(w, b)$$

When $\frac{\partial J(w,b)}{\partial w}$ is a negative number (less than zero), what happens to w after one update step?

- $\bigcirc w$ stays the same
- \bigcirc It is not possible to tell if w will increase or decrease.
- \bigcirc w increases.
- $\bigcirc w$ decreases

✓ Benar

The learning rate is always a positive number, so if you take W minus a negative number, you end up with a new value for W that is larger (more positive).

2. 1/1 poin

For linear regression, what is the update step for parameter b?

$$left b = b - lpha rac{1}{m} \sum_{i=1}^{m} (f_{w,b}(x^{(i)}) - y^{(i)})$$

$$0 b = b - \alpha \frac{1}{m} \sum_{i=1}^{m} (f_{w,b}(x^{(i)}) - y^{(i)}) x^{(i)}$$

⊘ Benar

The update step is $b=b-\alpha \frac{\partial J(w,b)}{\partial w}$ where $\frac{\partial J(w,b)}{\partial b}$ can be computed with this expression: $\sum_{i=1}^{m} (f_{w,b}(x^{(i)}) - y^{(i)})$