Linear R

Quiz submitted

- Due No due date
- Points 40
- Questions 4
- Time Limit None
- Allowed Attempts Unlimited

Instructions

You can have multiple attempt on this quiz to improve your score. Only the highest score will be recorded.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 6	1 minute	40 out of 40
LATEST	Attempt 6	1 minute	40 out of 40
	Attempt 5	1 minute	40 out of 40
	Attempt 4	less than 1 minute	40 out of 40
	Attempt 3	21 minutes	36.67 out of 40
	Attempt 2	less than 1 minute	40 out of 40
	Attempt 1	1 minute	36.67 out of 40

Score for this attempt: 40 out of 40
Submitted Nov 2 at 6:55pm
This attempt took 1 minute.

Question 1
10 / 10 pts

For linear regression, the model is represented by $f_{w,b}(x) = wx + b$. Which of the following is the output or "target" variable?

- x

Correct!

- y

this notation is usually used for output or target.

- $\hat{y}$
- m

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Question 2
10 / 10 pts

For linear regression, the model is $f_{w,b}(x) = wx + b$.

Which of the following are the inputs, or features, that are fed into the model and with which the model is expected to make a prediction?

- m
- w and b
- (x, y)

Correct!

- x

The x, the input features, are fed into the model to generate a prediction $f_{w,b}(x) = wx + b$

Question 3
10 / 10 pts

For linear regression, if you find parameters w and b so that $J(w, b)$ is very close to zero, what can you conclude?

Correct!

- The selected values of the parameters ww and bb cause the algorithm to fit the training set really well.

When the cost is small, this means that the model fits the training set well.

- The selected values of the parameters ww and bb cause the algorithm to fit the training set really poorly.
- This is never possible -- there must be a bug in the code.

Question 4
10 / 10 pts

Which of the following statement is correct for Gradient Descent method?

Correct!

- [x] Gradient Descent can always reach to a local minimum with a small enough fixed learning rate.
- [ ] It can only be used for linear regression model

Correct!

- [x] Can be used for multi-variable linear regression

Correct!

- [x] A large choice of learning rate could cause divergence.

Quiz Score: 40 out of 40