

MLA Assignment No 3

MLA Assignment No 3

Name of Student *

4) Which of the following methods do we use to find the best fit line for data in Linear Regression?

- A) Least Square Error
- B) Maximum Likelihood
- C) Logarithmic Loss
- D) Both A and B

Shivam Tawari

Class Roll Number *

4) Which of the following methods do we use to find the best fit line for data in Linear Regression?

- A) Least Square Error
- B) Maximum Likelihood
- C) Logarithmic Loss
- D) Both A and B

58

Email-id *

4) Which of the following methods do we use to find the best fit line for data in Linear Regression?

- A) Least Square Error
- B) Maximum Likelihood
- C) Logarithmic Loss
- D) Both A and B

tawari_shivam.ai@ghrce.raisoni.net

MCQ



*

4) Which of the following methods do we use to find the best fit line for data in Linear Regression?

- A) Least Square Error
- B) Maximum Likelihood
- C) Logarithmic Loss
- D) Both A and B

☒ A

☐ B

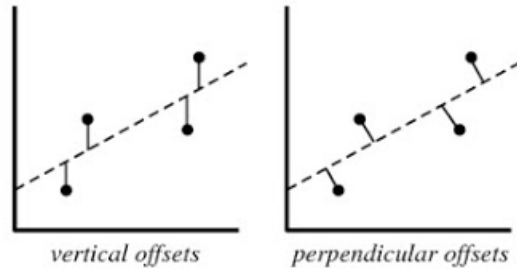
☐ C

☐ D



*

Which of the following offsets, do we use in linear regression's least square line fit? Suppose horizontal axis is independent variable and vertical axis is dependent variable.



- A) Vertical offset
- B) Perpendicular offset
- C) Both, depending on the situation
- D) None of above

- ☒ A
- ☐ B
- ☐ C
- ☐ D



*

19) Which of the following statement is true about outliers in Linear regression?

- A) Linear regression is sensitive to outliers
- B) Linear regression is not sensitive to outliers
- C) Can't say
- D) None of these

☒ A

☐ B

☐ C

☐ D

*

Suppose that you have a dataset D1 and you design a linear regression model of degree 3 polynomial and you found that the training and testing error is "0" or in another terms it perfectly fits the data.

20) What will happen when you fit degree 4 polynomial in linear regression?

- A) There are high chances that degree 4 polynomial will over fit the data
- B) There are high chances that degree 4 polynomial will under fit the data
- C) Can't say
- D) None of these

☒ A

☐ B

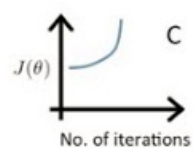
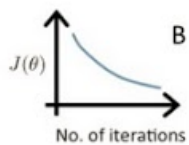
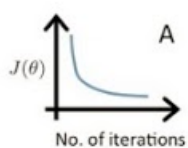
☐ C

☐ D



*

Which of the following is true about below graphs(A,B, C left to right) between the cost function and Number of iterations?



23) Suppose l_1 , l_2 and l_3 are the three learning rates for A,B,C respectively. Which of the following is true about l_1, l_2 and l_3 ?

A) $l_2 < l_1 < l_3$

B) $l_1 > l_2 > l_3$

C) $l_1 = l_2 = l_3$

D) None of these

☒ A

☐ B

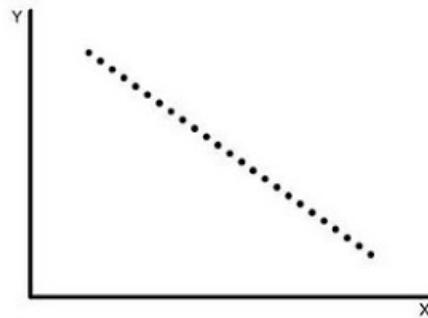
☐ C

☐ D



*

Consider the following data where one input(X) and one output(Y) is given.



26) What would be the root mean square training error for this data if you run a Linear Regression model of the form ($Y = A_0 + A_1X$)?

- A) Less than 0
- B) Greater than zero
- C) Equal to 0
- D) None of these

- ☐ A
- ☐ B
- ☒ C
- ☐ D



*

Suppose you have been given the following scenario for training and validation error for Linear Regression.

Scenario	Learning Rate	Number of iterations	Training Error	Validation Error
1	0.1	1000	100	110
2	0.2	600	90	105
3	0.3	400	110	110
4	0.4	300	120	130
5	0.4	250	130	150

27) Which of the following scenario would give you the right hyper parameter?

- A) 1
- B) 2
- C) 3
- D) 4

- ☐ A
- ☒ B
- ☐ C
- ☐ D



*

The average and standard deviation of the following numbers are

2	4	10	12	1.6	6.4
---	---	----	----	-----	-----

(A) 6.0, 4.0857

(B) 6.0, 4.2783

(C) 7.2, 4.0857

(D) 7.2, 4.4757

☐ A

☒ B

☐ C

☐ D

*

The average of 7 numbers is given 12.6. If 6 of the numbers are 5, 7, 9, 12, 17 and 10, the remaining number is

(A) -47.9

(B) -47.4

(C) 15.6

(D) 28.2

☐ A

☐ B

☐ C

☒ D



*

The average and standard deviation of 7 numbers is given a 8.142 and 5.005, respectively. If 5 numbers are 5, 7, 9, 12 and 17, the other two numbers are

(A) -0.1738, 7.175

(B) 3.396, 12.890

(C) 3.500, 3.500

(D) 4.488, 2.512

☐ A

☐ B

☐ C

☒ D

This form was created inside of Raisonni Group of Institutions.

Google Forms

