

MACHINE LEARNING

Que 1. The computational complexity of linear regression is :

Ans. (b) $O(n)$

Que 2. Which of the following can be used to fit non-linear data?

Ans. (c) Polynomial Regression

Que 3. Which of the following can be used to optimize the function of Linear Regression/

Ans. (b) Gradient Descent

Que 4. Which of the following method does not have closed form solution for its coefficients?

Ans. (c) Lasso

Que 5. Which gradient descent algorithm always gives optimal solution?

Ans. (a) Stochastic Gradient Descent

Que 6. Generalization error measures how well a model performs on training data.

Ans. (a) True

Que 7. The cost function of linear regression can be given as

The half term at start is due to.

Ans. (a) scaling cost function by half makes gradient descent converge faster.

Que 8. Which of the following will have symmetric relation between dependent variable and independent variable?

Ans. (b) Correlation

Que 9. Which of the following is true about Normal Equation used to compute the coefficient of the Linear Regression?

Ans. (a) We don't have to choose the learning rate.

(b) It becomes slow when number of features are very large.

(c) We need to iterate.

Que 10. Which of the following statement/s are true if we generated data with the help of Polynomial features with 5 degrees of freedom which perfectly fits the data?

Ans. (a) Linear Regression will have high bias and low variance.

(d) Polynomial with degree 5 will have high bias & low variance.

Que 11. Which of the following sentence is false regarding regression?

Ans. (c) It discovers causal relationship.