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1. When implementing linear regression of some dependent variable by on the set of independent variables x= (x1,…,xr), where r is the number of predictors, which of the following statements will be true?

The correct statement is:

B) Linear regression is about determining the best predicted weights by using the method of ordinary least squares.

Linear regression involves finding coefficients (Bo,B1,…,Br) using the ordinary least squares method to minimize the sum of squared differences between predicted and actual values,

1. What indicates that you have a perfect fit in linear regression?

The Correct Statement is:

d) The value R2=1, which corresponds to SSR=0.

1. In simple linear regression , the value of what shows the point where the estimated regression line crosses they axis?

The correct Statement is:

b) B0

1. Check out these four linear regression plots

The correct Statement

1. The bottom –left plot
2. There are five basic steps when you are implement linear regression:

. a. check the results of model fitting to know whether the model is satisfactory.

. b. Provide data to work with, and eventually do appropriate transformation.

. c. Apply the model for predictions.

. d. Import the packages and classes that you need.

. e. Create a regression model and fit it with existing data.

However , those steps are currently listed in the wrong order. What’s the correct order?

The correct statement is:

d) d, b, e, a, c,

26) which of the following are options parameters to Linear Regression in scikit-learn?

The correct option for parameters in Linear Regression in scikit-learn are:

1. Fit \_ intercept
2. Normalize
3. N\_jobs

27 ) while working with scikit-learn, in which type of regression do you need to transform the array of input to include nonlinear terms such as x2?

The correct statement is:

c) Polynomial regression

28) you should choose statsmodels over scikit-learn when:

The correct statement is:

C) You need more details results.

29) ------------ is a fundamental package for scientific computing with python. It offers comprehensive mathematical function, random number generator, linear algebra routines, fourier transform, and more. It accessible and productive.

b) Numpy

30) -----------is a Python data visualization library based on Matplotlib . It provides a high –level interface for drawing attractive and informative statistical graphic that allow you to explore and understand your data. It integrates closely with pandas data structures.

b) Seaborn

41) Among the following identify the one in which dimensionality reduction reduces.

d) Collinearity

42) which of the following machine learning algorithm is based upon the idea of bagging?

b) Random Forest

43) Choose a disadvantage of decision tree among the following.

C) Decision Trees are prone to overfit

44) what is the term know on which the machine learning algorithms build a model based on sample data?

c) Training data

45) which of the following machine learning techniques helps in detecting the outliers In data?

c) Anamoly detection

46) Identify the incorrect numerical functions in the various functions representation of machine learning.

c) Case based

47) Analysis of ML algorithms need

d) Both a and b

48) Identify the difficulties with the k- nearest neighbor algorithms.

c) Both a and b

49) The total types of the layer in radial basis function neural network is---------

b) 2

50) Which of the following is not a supervised learning

d) KMeans