

Assignment (FILE 2)

21) When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1, \dots, x_r)$, where r is the number of predictors, which of the following statements will be true?

answer

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

22) What indicates that you have a perfect fit in linear regression?

Answer

b) The value $R^2 = 0$, which corresponds to $SSR = 1$

23) In simple linear regression, the value of what shows the point where the estimated regression line crosses the y axis?

Answer

b) B_0

24) Check out these four linear regression plots:

answer

(c)

25) Which one represents an underfitted model?

Answer.

c) d, e, c, b, a

26) Which of the following are optional parameters to LinearRegression in scikit-learn ?

b) fit intercept

27) While working with scikit-learn, in which type of regression do you need to transform the array of inputs to include nonlinear terms such as x^2

Answer

c) Polynomial regression

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

Answer

c) You need more detailed results.

29) _____ is a fundamental package for scientific computing with Python. It offers comprehensive mathematical functions, random number generators, linear algebra routines, Fourier transforms, and more. It provides a high-level syntax that makes it accessible and productive.

Answer

b) Numpy

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

b) Seaborn