D2- Assignment

Harpreet kaur

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

Ans. d) Both a and b

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

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

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

b) B0

24) Check out these four linear regression plots:

d) The top-left plot

25) There are five basic steps when you're implementing linear regression:

d) d, b, e, a, c

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

b) fit_intercept c) normalize d) copy_X e) n_jobs f) reshape

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?

c) Polynomial regression

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

d) You need to include optional parameters.

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.

b) Numpy

_____ 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