ANSWERS

21 When implementing linear regression of some dependent variable y on the set of independent variables $\mathbf{x} = (x_1,, x_r)$, where r is the number of predictors, which of the following statements will be true?
d) Both and b
22) What indicates that you have a perfect fit in linear regression?
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?
b) B0
24) Check out these four linear regression plots: Which one represents an underfitted model?
d) The top-left plot
25) There are five basic steps when you're implementing 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 transformations. • 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?
d) d, b, e, a, c
26) Which of the following are optional parameters to LinearRegression in scikit-learn?
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) You should choose statsmodels over scikit-learn when:
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.
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