PFA File-2

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?

Answer: d) both a & b

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

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

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

Answer: b) B0

24. Check out these four linear regression plots . Which one represents an underfitted model?

Answer: 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?

Answer: d) d, b, e, a, c

26. Which of the following are optional parameters to

LinearRegression in scikit-learn?

Answer: b ,c,d,e

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

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

Answer: c) You need more detailed results.

29	9 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.

Answer: b) Seaborn