Q .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 and b

Note - Here all options are right.

Q 22

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

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

Q 23

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

Ans - b) B0

Q 24

Which one represents an underfitted model?

Ans - a)The bottom-left plot

Q 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?

Ans - a) e, c, a, b, d

Q 26

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

Ans - c) normalize

Q 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?

Ans - c) Polynomial regression

Q 28

You should choose statsmodels over scikit-learn when:

Ans - c) You need more detailed results.

Q 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.

Ans - b) Numpy

Q 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

Ans - b) Seaborn