D2—1

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Batch DS2304

## **DEVESH VERMA**

- 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?
  - a)  $\beta_0, \beta_1, ..., \beta_7$  are the regression coefficients.
  - b) Linear regression is about determining the best predicted weights by using the method of ordinary least squares.
  - C) E is the random interval
  - d) Both and b

ans-21: d

22)

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

- a) The value  $R^2 < 1$ , which corresponds to SSR = 0
- b) The value  $R^2 = 0$ , which corresponds to SSR = 1
- c) The value  $R^2 > 0$ , which corresponds to SSR = 1
- d) The value  $R^2 = 1$ , which corresponds to SSR = 0

ans-22: d

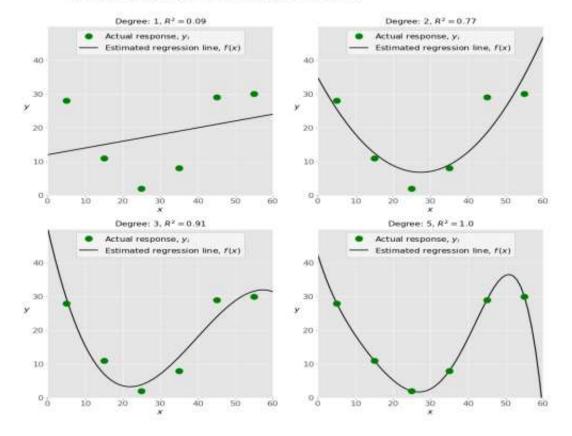
23)

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

- a) Y
- b) B0
- c) B1
- d) F

ans-23: b





Which one represents an underfitted model?

- a)The bottom-left plot
- b) The top-right plot
- c) The bottom-right plot
- d) The top-left plot

<mark>ans-24: d</mark>

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?

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

ans-25: d

20 ) W	men of the following are optional p	parameters to Emearkegression in scikit-team:
a)	Fit	
b)	fit_intercept	
0.00	normalize	
d)	copy_X	ans-26: b,c,d,e
e)		ans 20. b,c,u,c
f)	reshape	
	the working with scikit-learn, in which include nonlinear terms such as $x^2$	ich type of regression do you need to transform the array of
a)Multip	ole linear regression	
b) Simpl	le linear regression	<mark>ans-27: c</mark>
c) Polyn	nomial regression	
28) You	u should choose statsmodels over sc	cikit-learn when:
A)You	want graphical representations of ye	our data.
b) You'	re working with nonlinear terms.	
c) You	need more detailed results.	<mark>ans-28: c</mark>
d) You	need to include optional parameters	s.
1000	ensive mathematical functions, rand	or scientific computing with Python. It offers dom number generators, linear algebra routines, Fourier el syntax that makes it accessible and productive.
a) Pandas	S.	
b) Numpy	у	
c) Statsm	odel	ans-29: b
d) scipy		a115-29. D
		on library based on Matplotlib. It provides a high-level ve statistical graphics that allow you to explore and th pandas data structures.
a) Bokeh		ans-30: b
b) Seabo		a115-50. D
c) Matple	otno	
d) Dash		