# 21 When implementing linear regression of some dependent variable y on the set of independent

variables x = (x1, ..., xr), where r is the number of predictors, which of the following statements will

#### be true?

- a)  $\beta$ 0,  $\beta$ 1, ...,  $\beta$ r 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 a and b

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

- a) The value R2 < 1, which corresponds to SSR = 0
- b) The value R2 = 0, which corresponds to SSR = 1
- c) The value R2 > 0, which corresponds to SSR = 1
- d) The value R2 = 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?
- a) Y b) B0 c) B1 d) F

#### 24. Check out these four linear regression plots:

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

### 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	
26 ) Which of the following	are optional parameters to	Linear Regression in scikit-learn?
a) Fit	b) fit_intercept	c) normalize
d) copy_X	e) n_jobs	f) reshape
27) While working with sci transform the array of inp	, , ,	of regression do you need to erms such as x2?
a)Multiple linear regression		
b) Simple linear regression		
c) Polynomial regression		
28) You should choose stat	smodels over scikit-learn	when:
A)You want graphical repres	sentations of your data.	
b) You're working with non	linear terms.	
	W	
c) You need more detailed	results.	
d) You need to include option		
d) You need to include option	onal parameters.	ic computing with Python. It offers
d) You need to include option 29) is a fundam comprehensive mathematic	onal parameters.  ental package for scientif  cal functions, random nu	ic computing with Python. It offers mber generators, linear algebra a high-level syntax that makes it
d) You need to include option  29) is a fundam  comprehensive mathematic routines, Fourier transform	onal parameters.  ental package for scientif  cal functions, random nu	mber generators, linear algebra
d) You need to include option  29) is a fundam  comprehensive mathematic routines, Fourier transform accessible and productive.	onal parameters.  ental package for scientif  cal functions, random nu	mber generators, linear algebra
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