PDF 2 FILE 2 MCQ....

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,

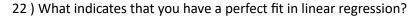
which of the following statements will be true?

a) β_0 , β_1 , ..., β_r are the regression coefficients.

h	o) Linear re	egression is a	about deter	mining the	best pre	dicted w	eights b	v using t	he meth	od o	f ordina

b) Linear regression	is about determining the i	best predicted weights	s by using the meth	iod of ordinary
least squares.				

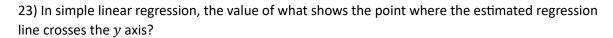
c) E is the random interval	
d) Both and b	



- 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

ANSWER... C

ANSWER...



- a) Y
- b) B0
- c) B1
- d) F
- 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
Answer B
26) Which of the following are optional parameters to LinearRegression in scikit-learn?
a) Fit
b) fit_intercept
c) normalize
d) copy_X
e) n_jobs
f) reshape
ANSWER F
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 ?
a)Multiple linear regression
b) Simple linear regression
c) Polynomial regression
ANSWERB
28) You should choose statsmodels over scikit-learn when:
A)You want graphical representations of your data.
b) You're working with nonlinear terms.
c) You need more detailed results.
d) You need to include optional parameters.
ANSWERB

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.0
a) Pandas
b) Numpy
c) Statsmodel
d) scipy
ANSWERB
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.
a) Bokeh
b) Seaborn
c) Matplotlib
d) Dass
Answer B