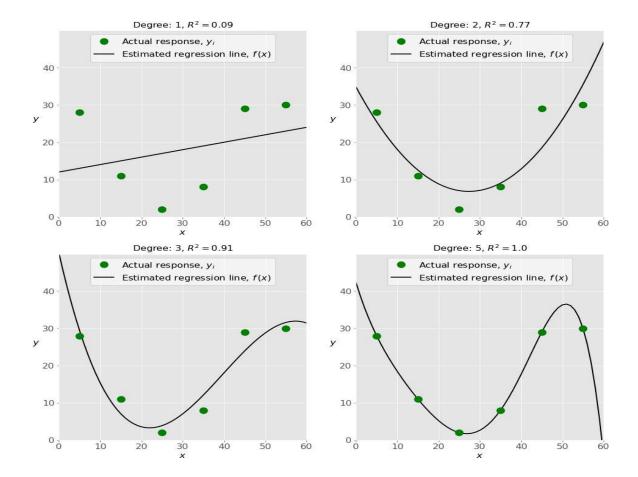
BATCH DS2311

Check out these four linear regression plots:

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)
b) Linear regression is about determining the best predicted weights by using the method of ordinary least squares .
c)
d)
22)
What indicates that you have a perfect fit in linear regression?
a) The value $R^2 \le 1$, which corresponds to $SSR = 0$
b) c)
d)
23)
In simple linear regression, the value of what shows the point where the estimated regression line crosses the y axis?
a)
b) <u>B0</u> c)
d)
24)



Which one represents an underfitted model?

a) The bottom-left plot

- b)
- c)
- d)

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)
b) c)
d) <u>d, b, e, a, c</u>
26) Which of the following are optional parameters to LinearRegression in scikit-learn?
a)
b)
c) d)
e) <u>n jobs</u>
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)
b)
c) Polynomial regression
28) You should choose statsmodels over scikit-learn when:
A
b)
c) You need more detailed results.
d)
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.
a)
b)
c) <u>Statsmodel</u>
d)
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)
- b) <u>Seaborn</u>
- c)
- d)