ANSWERS

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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? Answer: D). Both and b
22. What indicates that you have a perfect fit in linear regression? Answer: d) The value $R^2 = 1$, 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? Answer: b) ${\rm B0}$
24. Check out these four linear regression plots: Which one represents an underfitted model? Answer: d) The top-left plot
25. There are five basic steps when you're implementing linear regression: Answer: b) e, d, b, a, c
26. Which of the following are optional parameters to Linear Regression in scikit-learn? Answer: b) fit_intercept c) normalize d) copy_X e) n_jobs
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 ? Answer: c) Polynomial regression
28. You should choose statsmodels over scikit-learn when: Answer: c) You need more detailed results. d) You need to include optional parameters.
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. Answer: b) Numpy
30 is a Python data visualization library based on Matplotlib. It provides a high-level

41. Among the following identify the one in which dimensionality reduction reduces.

interface for drawing attractive and informative statistical graphics that allow you to explore and

42 Which of the fallowing weeking leaving elevither is been done the idea of begin

- 42. Which of the following machine learning algorithm is based upon the idea of bagging? Answer: b) Random Forest
- $\ \, 43.\ \, \text{Choose a disadvantage of decision trees among the following.}$

understand your data. It integrates closely with pandas data structures.

Answer: c) Decision Tree are prone to overfit.

44. What is the term known as on which the machine learning algorithms build a model based on sample data?

Answer: c) Training data

Answer: b) Seaborn

Answer: d) Collinearity

45. Which of the following machine learning techniques helps in detecting the outliers in data? Answer: c) Anomaly detection

46. Identify the incorrect numerical functions in the various function representation of machine learning.

Answer: c) Case based

47. Analysis of ML algorithm needs:

Answer: d) Both a and b (Statistical learning theory & Computational learning theory)

48. Identify the difficulties with the k-nearest neighbour algorithm.

Answer: C) Both a and b (Curse of dimensionality and calculating the distance of test case for all training cases.

49. The total types of the layer in radial basis function neural networks is ______ Answer: b) 2

50. Which of the following is not a supervised learning.

Answer: d) KMeans