Practice Test - Data Analytics

Date : 10-05-2022

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1. Missing Value filling help in _____ 1 point

- A. restoring original data
- B. making data close to original values
- C. deleting missing data
- D. reducing NaNs

Clear selection

2. Convert array to label encoding by using relation A > B > C. [A,C,B,D,A,A,C,C,B]Array after encoding will be 1 point

- A. [0,2,1,3,0,0,2,2,1]
- B. [3,1,2,0,3,3,1,1,2]
- C. [1,2,3,4,1,1,2,2,3]
- (●) D. ERROR

Clear selection

3. Drop a column with missing values if it _____ 1 point

- A. has low missing values
- B. has 20% missing values
- (●) C. has more than 90% missing values
- D. has very high missing values

Clear selection

4. Dropping a row containing many missing values results in random sampling. 1 point

- A. TRUE
- (●) B. FALSE

Clear selection

5. Sampling is used for _____ 1 point

- A. Normalizing the data from various sources
- B. Balancing data in regression problem
- C. Balancing data from classification problem
- D. Balancing normalization

Clear selection

6. A data which is normally distributed is _____ 1 point

- A. continuous in nature
- B. categorical in nature
- C. ordinal in nature
- D. nominal in nature

Clear selection

7. One of the method to fill missing values in time series is ____ 1 point

- A. centre fill
- B. outlier fill
- C. simple fill
- D. back fill

Clear selection

8. ARIMA stands for 1 point

- A. Automatic Recursive Integrated Mass Average
- B. Artificial Recursive Intelligence for Moving Average
- C. Auto Regressive Integrated Moving Average
- D. Auto Regressive Intimation Moving Analog

Clear selection

9. Segmentation of data leads to _____ 1 point

- A. Part by part analysis
- B. Extracting imp patterns
- C. Understanding data
- D. All of the above

Clear selection

10. One hot encode the following array without creating all columns (dropfirst)[Y,N,Y,N,N,Y] 1 point

- A. [[1,0],[0,1],[1,0],[0,1],[0,1],[1,0]]
- B. [[1,1],[0,1],[1,0],[0,1],[0,1],[1,1]]
- C. [1,0,1,0,0,1]
- D. [0,1,0,0,1,1]

Clear selection

11. log transform is used for _____ 1 point

- A. converting the probability density function to skewed format
- B. converting distribution to exponential
- C. convert distribution to normal distribution
- D. None of the above

Clear selection

12. Z-transform changes _____ of data 1 point

- A. negative values
- B. positive values
- C. type
- D. range

Clear selection

13. Poisson Distribution _____ 1 point

- A. uses average value for estimations
- B. creates normally distributed data
- C. creates range of values
- D. uses standard deviation of data

Clear selection

14. In a dataset of records of accidents, there are 50% data of accidentsand 50% of no accidents. There is a feature X1 which has all values samewhen accidents take place any time. On the other hand X2 feature can have2 different value when any accident takes place. 1 point

- (●) A. Entropy of X1 is higher than X2
- ( ) B. Entropy of X1 and X2 are both high
- ( ) C. Entropy of X1 is less than X2
- ( ) D. Entropy of dataset is low

Clear selection

15. Decision Tree has problem of _____ 1 point

- (●) A. over fitting when training is very less
- ( ) B. over fitting because of being a rule based system
- ( ) C. under fitting when training features are limited
- ( ) D. difficult feature selection

Clear selection

16. Bias in model is based on _____ 1 point

- ( ) A. Bias in data
- ( ) B. Bias in model distribution
- (●) C. Assumptions of model
- ( ) D. Sampling of model's strategy

Clear selection

17. Variance of a model can be reduced by _____ 1 point

- A. regularization
- B. increasing amount of training data
- c. increasing test data
- D. reducing total error

Clear selection

18. Outliers are _____ 1 point

- A. always removed
- B. always good if removed
- C. always badly affect the results
- D. may be good or bad so needs to be specially dealt as per the data

Clear selection

19. Unsupervised feature selection algorithm is ____ 1 point

- A. RFE
- B. LASSO
- C. PCA
- D. RIDGE

Clear selection

20. Linear regression is used for prediction of _____ output 1 point

- A. nominal
- B. categorical
- C. numeric
- D. binary

Clear selection

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