Machine Learning (ML) solved MCQs

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301. A feature F1 can take certain value: A, B, C, D, E, & F and represents grade of students from a college.Which of the following statement is true in following case?

A. feature f1 is an example of nominal variable.

B. feature f1 is an example of ordinal variable.

C. it doesnt belong to any of the above category.

D. both of these

B.feature f1 is an example of ordinal variable. discuss

302. What would you do in PCA to get the same projection as SVD?

A. transform data to zero mean

B. transform data to zero median

C. not possible

D. none of these

A.transform data to zero mean discuss

B. kernel based principal component analysis

C. independent component analysis

D. all above

D.all above

discuss

304. Can a model trained for item based similarity also choose from a given set of items?

A. yes

B. no

A.yes

discuss

305. What are common feature selection methods in regression task?

A. correlation coefficient

B. greedy algorithms

C. all above

D. none of these

C.all above

discuss

306. The parameter allows specifying the percentage of elements to put into the test/training set

A. test_size

B. training_size

C. all above

D. none of these

C.all above

discuss

307. In many classification problems, the target is made up of categorical labels which cannot immediately be processed by any algorithm.

A. random_state

B. dataset

C. test_size

D. all above

B.dataset

discuss

308. adopts a dictionary-oriented approach, associating to each category label a progressive integer number.

A. labelencoder class

B. labelbinarizer class

C. dictvectorizer

D. featurehasher

A.labelencoder class

discuss

309. If Linear regression model perfectly first i.e., train error is zero, then

A. a) test error is also always zero

B. b) test error is non zero

C. c) couldnt comment on test error

D. d) test error is equal to train error

C.c) couldn't comment on test error

discuss

310. Which of the following metrics can be used for evaluating regression models?i) R Squaredii) Adjusted R Squarediii) F Statisticsiv) RMSE / MSE / MAE

A. a) ii and iv

B. b) i and ii

C. c) ii, iii and iv

D. d) i, ii, iii and iv

D.d) i, ii, iii and iv

discuss

311. In a simple linear regression model (One independent variable), If we change the input variable by 1 unit. How much output variable will change?

A. a) by 1

B. b) no change

C. c) by intercept

D. d) by its slope

D.d) by its slope

discuss

312. Function used for linear regression in R is

A. a) lm(formula, data)

B. b) lr(formula, data)

C. c) lrm(formula, data)

D. d) regression.linear(formula, data)

A.a) lm(formula, data)

discuss

313. In syntax of linear model lm(formula,data,..), data refers to

A. a) matrix

B. b) vector

B.b) vector

314. In the mathematical Equation of Linear Regression Y?=??1 + ?2X + ?, (?1, ?2) refers to

A. a) (x-intercept, slope)

B. b) (slope, x-intercept)

C. c) (y-intercept, slope)

D. d) (slope, y-intercept)

C.c) (y-intercept, slope) discuss

315. Linear Regression is a supervised machine learning algorithm.

A. a) true

B. b) false

A.a) true discuss

316. It is possible to design a Linear regression algorithm using a neural network?

A. a) true

B. b) false

A.a) true discuss

317. Which of the following methods do we use to find the best fit line for data in Linear Regression?

A. a)least square error

B. b)maximum likelihood

C. c) logarithmic loss

D. d) both a and b

A.a)�least square error discuss

318. Which of the following evaluation metrics can be used to evaluate a model while modeling a continuous output variable?

A. a)auc-roc

B. b)accuracy

C. c)logloss

D. d)mean-squared-error

D.d)�mean-squared-error discuss

319. Which of the following is true about Residuals ?

A. a) lower is better

B. b)higher is better

C. c)a or b depend on the situation

D. d)none of these

A.a) lower is better discuss

B. b) false

B.b) false

discuss

321. Which of the following statement is true about outliers in Linear regression?

A. a)linear regression is sensitive to outliers

B. b)linear regression is not sensitive to outliers

C. c)cant say

D. d)none of these

A.a)linear regression is sensitive to outliers

discuss

322. Suppose you plotted a scatter plot between the residuals and predicted values in linear regression and you found that there is a relationship between them. Which of the following conclusion do you make about this situation?

A. a)since the there is a relationship means our model is not good

B. b)since the there is a relationship means our model is good

C. c)cant say

D. d)none of these

A.a)since the there is a relationship means our model is not good

discuss

323. Naive Bayes classifiers are a collection----------of algorithms

A. classification

B. clustering

C. regression

D. all

A.classification

discuss