Machine Learning (ML) solved MCQs

« Set 21 **22** of **31** Set 23 »

526. We have been given a dataset with n records in which we have input attribute as x and output attribute as y. Suppose we use a linear regression method to model this data. To test our linear regressor, we split the data in training set and test set randomly. Now we increase the training set size gradually. As the training set size increases, what do you expect will happen with the meantraining error?

A. increase

B. decrease

C. remain constant

D. can't say

D.can't say discuss

527. We have been given a dataset with n records in which we have input attribute as x and output attribute as y. Suppose we use a linear regression method to model this data. To test our linear regressor, we split the data in training set and test set randomly. What do you expect will happen with bias and variance as you increase the size oftraining data?

A. bias increases and variance increases

B. bias decreases and variance increases

C. bias decreases and variance decreases

D. bias increases and variance decreases

D.bias increases and variance decreases discuss

528. Suppose, you got a situation where you find that your linear regression model is under fitting the data. In such situation which of the following options would you consider?1. I will add more variables2. I will start introducing polynomial degree variables3. I will remove some variables

A. 1 and 2

B. 2 and 3

C. 1 and 3

D. 1, 2 and 3

A.1 and 2 discuss

529. Problem: P

A. true

B. false

A.true

discuss

530. Multinomial Naïve Bayes Classifier is _ distribution

A. continuous

B. discrete

C. binary

B.discrete

discuss

531. For the given weather data, Calculate probabilityof not playing

A. 0.4

B. 0.64

C. 0.36

D. 0.5

C.0.36

discuss

532. The minimum time complexity for training an SVM is O(n2). According to this fact, what sizesof datasets are not best suited for SVM's?

A. large datasets

B. small datasets

C. medium sized datasets

D. size does not matter

A.large datasets

discuss

533. The effectiveness of an SVM depends upon:

A. selection ofkernel

B. kernelparameters

C. soft marginparameter c

D. all of theabove

D.all of theabove

discuss

534. What do yc

A. how far the h

B. how accurately the svm can predict outcomes forunseen data

C. the threshold amount of error in an svm

discuss

B.how accurately the svm can predict outcomes forunseen data

535. We usually use feature normalization before using the Gaussian kernel in SVM. What is true about feature normalization? 1. We do feature normalization so that new feature will dominate other 2. Some times, feature normalization is not feasible in case of categorical variables3. Feature normalization always helps when we useGaussian kernel in SVM

A. 1

B. 1 and 2

C. 1 and 3

D. 2 and 3

discuss

B.1 and 2

536. Support vectors are the data points that lieclosest to the decision surface.

A. true

B. false

discuss

A.true

537. Which of the following is not supervisedlearning?

A. pca

B. decisiontree

C. naivebayesian

D. linerarregression

discuss

A.pca

538. Gaussian Naïve Bayes Classifier is _ distribution

A. continuous

B. discrete

C. binary

discuss

A.continuous

539. If I am usin
~70% on validat
for?

A. underfitting

B. nothing, the model is perfect

C. overfitting

discuss

C.overfitting

540. What is the purpose of performing cross- validation?

A. a. to assess the predictive performance of the models

B. b. to judge how the trained model performs outside the sample ontest data

C. c. both a and b

discuss

C.c. both a and b

541. Suppose you are using a Linear SVM classifier with 2 class classification problem. Now you have been given the following data in which some points are circled red that are representing support vectors.If you remove the following any one red points from the data. Does the decisionboundary will change?

A. yes

B. no

discuss

A.yes

542. Linear SVMs have no hyperparameters that needto be set by cross-validation

A. true

B. false

discuss

B.false

543. For the given weather data, what is theprobability that players will play if weather is sunny

A. 0.5

B. 0.26

C. 0.73

D. 0.6

discuss

D.0.6

544. 100 people are at party. Given data gives information about how many wear pink or not, and if a man or not. Imagine a pink wearing guest leaves, what is the probability of being aman

A. 0.4

B. 0.2

C. 0.6

D. 0.45

B.0.2 discuss

545. Problem: Players will play if weather is sunny. Is t

A. true

B. false

A.true discuss

546. For the given weather data, Calculate probability

A. 0.4

B. 0.64

C. 0.29

D. 0.75

B.0.64 discuss

547. For the given weather data, Calculate probability

A. 0.4

B. 0.64

C. 0.36

D. 0.5

discuss

C.0.36

548. For the given weather data, what is the probabilit

A. 0.5

B. 0.26

C. 0.73

D. 0.6

discuss

D.0.6

549. 100 people are at party. Given data gives informa

A. 0.4

B. 0.2

C. 0.6

D. 0.45

discuss

B.0.2

550. 100 people are at party. Given data gives informa

A. true

B. false

discuss

A.true

« Set 21 Set 23 »

1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	
28	29	30	31										

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