Machine Learning (ML) solved MCQs

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576. What is/are true about ridge regression?1. When lambda is 0, model works like linear regression model2. When lambda is 0, model doesn't work like linear regression model3. When lambda goes to infinity, we get very, very small coefficients approaching 04. When lambda goes to infinity, we get very, very large coefficients approaching infinity

A. 1 and 3

B. 1 and 4

C. 2 and 3

D. 2 and 4

A.1 and 3 discuss

577. 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 mean training error?

A. increase

B. decrease

C. remain constant

D. can't say

D.can't say discuss

578. 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 of training data?

A. bias increases and variance increases

B. bias decreasesand variance increases

C. bias decreases and variance decreases

D. bias increases and variance decreases

D.bias increases and variance decreases discuss

579. Problem: Players will play if weather is sunny. Is this statement is correct?

A. true

B. false

A.true discuss

580. Multinomial Naïve Bayes Classifier is _ distribution

A. continuous

B. discrete

C. binary

B.discrete discuss

581. The minimum time complexity for training an SVM is O(n2). According to this fact, what sizes of 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

582. 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 use Gaussian kernel in SVM

A. 1

B. 1 and 2

C. 1 and 3

D. 2 and 3

B.1 and 2 discuss

583. Which of the following is not supervised learning?

A. pca

B. decision tree

C. naive bayesian

584. Gaussian Naïve Bayes Classifier is _ distribution

A. continuous

B. discrete

C. binary

A.continuous

discuss

585. If I am using all features of my dataset and I achieve 100% accuracy on my training set, but~70% on validation set, what should I look out for?

A. underfitting

B. nothing, the model is perfect

C. overfitting

C.overfitting

discuss

586. The cost parameter in the SVM means:

A. the number of cross- validations to be made

B. the kernel to be used

C. the tradeoff between misclassificati on and simplicity of the model

D. none of the above

C.the tradeoff between misclassificati on and simplicity of the model

discuss

587. We usually use feature normalization before using the Gaussian k

A. e 1

B. 1 and 2

C. 1 and 3

D. 2 and 3

B.1 and 2

discuss

588. The effectiveness of an SVM depends upon:

A. selection of kernel

B. kernel parameters

C. soft margin parameter c

D. all of the above

discuss

D.all of the above

589. The process of forming general concept definitions from examples of concepts to belearned.

A. deduction

B. abduction

C. induction

D. conjunction

discuss

C.induction

590. Computers are best at learning

A. facts.

B. concepts.

C. procedures.

D. principles.

discuss

A.facts.

591. Data used to build a data mining model.

A. validation data

B. training data

C. test data

D. hidden data

discuss

B.training data

592. Supervised learning and unsupervised clustering both require at least one

D. categorical attribute.

discuss

A.hidden attribute.

593. Supervised learning differs from unsupervised clustering in that supervised learning requires

A. at least one input attribute.

B. input attributes to be categorical.

C. at least one output attribute.

D. output attributes to be categorical.

discuss

B.input attributes to be categorical.

594. A regression model in which more than one independent variable is used to predict thedependent variable is called

A. a simple linear regression model

B. a multiple regression models

C. an independent model

D. none of the above

discuss

C.an independent model

595. A term used to describe the case when the independent variables in a multiple regression modelare correlated is

A. regression

B. correlation

C. multicollinearity

D. none of the above

596. A multiple regression model has the form: y = 2 + 3x1 + 4x2. As x1 increases by 1 unit (holding x2constant), y will

A. increase by 3 units

B. decrease by 3 units

C. increase by 4 units

D. decrease by 4 units

C.increase by 4 units

discuss

597. A multiple regression model has

A. only one independent variable

B. more than one dependent variable

C. more than one independent variable

D. none of the above

B.more than one dependent variable

discuss

598. A measure of goodness of fit for the estimated regression equation is the

A. multiple coefficient of determination

B. mean square due to error

C. mean square due to regression

D. none of the above

C.mean square due to regression

discuss

599. The adjusted multiple coefficient of determination accounts for

A. the number of dependent variables in the model

B. the number of independent variables in the model

C. unusually large predictors

D. none of the above

D.none of the above

discuss

600. The multiple coefficient of determination is computed by