Machine Learning (ML) solved MCQs

« Set 25 **26** of **31** Set 27 »

626. According to____ , it's a key success factor for the survival and evolution of all species.

A. Claude Shannon\s theory

B. Gini Index

C. Darwin's theory

D. None of above

C.Darwin's theory

discuss

627. What is 'Training set'?

A. Training set is used to test the accuracy of the hypotheses generated by the learner.

B. A set of data is used to discover the potentially predictive relationship.

C. Both A & B

D. None of above

B.A set of data is used to discover the potentially predictive relationship.

discuss

C. Bioinformatics,Speech recognition

D. All above

D.All above discuss

629. Reinforcement learning is particularly efficient when_____.

A. the environment is not completely deterministic

B. it\s often very dynamic

C. it\s impossible to have a precise error measure

D. All above

D.All above discuss

630. if there is only a discrete number of possible outcomes (called categories),the process becomes a_____.

A. Regression

B. Classification.

C. Modelfree

D. Categories

B.Classification. discuss

631. Which of the following are supervised learning applications

A. Spam detection,Pattern detection,Natural Language Processing

B. Image classification,Real-time visual tracking

C. Autonomous car driving,Logistic optimization

D. Bioinformatics,Speech recognition

A.Spam detection,Pattern detection,Natural Language Processing discuss

632. During the last few years, many _____ algorithms have been applied to deepneural networks to learn the best policy for playing Atari video games and to teach an agent how to associate the right action with an input representing the state.

A. Logical

B. Classical

C. Classification

D. None of above

D.None of above discuss

633. What is ‘Overfitting’ in Machine learning?

A. when a statistical model describes random error or noise instead of underlying relationship ‘overfitting’ occurs.

B. Robots are programed so that they can perform the task based on data they gather from sensors.

C. While involving the process of learning ‘overfitting’ occurs.

D. a set of data is used to discover the potentially predictive relationship

A.when a statistical model describes random error or noise instead of underlying relationship ‘overfitting’ occurs. discuss

634. What is 'Test set'?

A. Test set is used to test the accuracy of the hypotheses generated by the learner.

B. It is a set of data is used to discover the potentially predictive relationship.

C. Both A & B

D. None of above

discuss

A.Test set is used to test the accuracy of the hypotheses generated by the learner.

635. _____is much more difficult because it's necessary to determine a supervised strategy to train a model for each feature and, finally, to predict their value

A. Removing the whole line

B. Creating sub-model to predict those features

C. Using an automatic strategy to input them according to the other known values

D. All above

discuss

B.Creating sub-model to predict those features

636. How it's possible to use a different placeholder through the parameter_____.

A. regression

B. classification

C. random_state

D. missing_values

discuss

D.missing_values

637. If you need a more powerful scaling feature, with a superior control on outliers and the possibility to select a quantile range, there's also the class_____.

A. RobustScaler

B. DictVectorizer

C. LabelBinarizer

D. FeatureHasher

discuss

A.RobustScaler

638. scikit-learn also provides a class for per-sample normalization, Normalizer. It can apply_____to each element of a dataset

A. max, l0 and l1 norms

B. max, l1 and l2 norms

C. max, l2 and l3 norms

D. max, l3 and l4 norms

B.max, l1 and l2 norms

discuss

639. There are also many univariate methods that can be used in order to select the best features according to specific criteria based on_____.

A. F-tests and p-values

B. chi-square

C. ANOVA

D. All above

A.F-tests and p-values

discuss

640. _____performs a PCA with non-linearly separable data sets.

A. SparsePCA

B. KernelPCA

C. SVD

D. None of the Mentioned

B.KernelPCA

discuss

B. Feature F1 is an example of ordinal variable.

C. It doesn't belong to any of the above category.

D. Both of these

discuss

B.Feature F1 is an example of ordinal variable.

642. 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

discuss

C.All above

643. 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

discuss

B.dataset

644. _____adopts a dictionary-oriented approach, associating to each category label a progressive integer number.

A. LabelEncoder class

B. LabelBinarizer class

C. DictVectorizer

D. FeatureHasher

discuss

A.LabelEncoder class

645. 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) Couldn't comment on Test error

D. d) Test error is equal to Train error

discuss

C.c) Couldn't comment on Test error

B. b) lr(formula, data)

C. c) lrm(formula, data)

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

discuss

A.a) lm(formula, data)

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

A. a) Matrix

B. b) Vector

C. c) Array

D. d) List

discuss

B.b) Vector

648. In the mathematical Equation of Linear Regression Y = β1 + β2X + ϵ, (β1, β2) refers to _____

A. a) (X-intercept, Slope)

B. b) (Slope, X-Intercept)

C. c) (Y-Intercept, Slope)

D. d) (slope, Y-Intercept)

discuss

C.c) (Y-Intercept, Slope)

649. 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

discuss

A.A) Least Square Error

650. 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