ML End quiz

20 Questions 30 Minutes
All The Best...!!!

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1. PCA can be used for projecting and visualizing data in lower dimensions. *

- (●) a. True
- ( ) b. False
- ( ) c. Both a and b
- ( ) d. None of above

2. In language understanding, the levels of knowledge that do not include? *

- a. Phonological
- b. Empirical
- c. Syntactic
- d. Logical

3. The dataset of positive samples is called as …….. *

- a. Hypothesis
- b. Target concept
- c. Nonmember of concept
- d. Members of the concept

4. Ability to learn how to do tasks based on the data given for training or initial experience *

- a. Self-organization
- b. Adaptive learning
- c. Fault Learning
- d. Robustness

5. The functions represented by Machine Learning without numeric functions are called as …. *

- a. Linear Regression
- b. Support Vector Machine
- c. Neural Network
- d. Case-based learning

6. KNN algorithm requires *

- [ ] a. More time for training
- [x] b. More time for testing
- [ ] c. Equal time for training and testing
- [ ] d. None of the mentioned

7. What does dimensionality reduction reduce? *

- [ ] a. stochastics
- [x] b. collinearity
- [ ] c. performance
- [ ] d. entropy

8. Targeted marketing, recommended systems, and customer segmentation are applications in .... *

- (●) a. Unsupervised Learning: Clustering
- ( ) b. Supervised Learning: Classification
- ( ) c. Reinforcement Learning
- ( ) d. Unsupervised Learning: Regression

9. The output of the training process in machine learning is *

- (●) a. machine learning model
- ( ) b. machine learning algorithm
- ( ) c. null
- ( ) d. accuracy

10. Which among the below options are types of Feature engineering? *

- [ ] a. Replacing the missing value
- [ ] b. Getting mean value from a group of entities
- [x] c. Extracting city from home address
- [ ] d. Changing hyper-parameter values

11. The over fitting means..... *

- [ ] a. When a predictive model is accurate but takes too long to run
- [ ] b. When the model learns specifics of the training data that can't be generalized to a large data set
- [x] c. When you perform hyperparameter tuning and performance degrades
- [ ] d. When you apply a powerful deep learning algorithm to a simple machine learning problem.

12. In SVM, a nonlinear problem can be solved by transforming data from ____ * dimensional space into _____ dimensional space.

- (●) a. High, low
- ( ) b. Low, high
- ( ) c. Low, medium
- ( ) d. Medium, High

13.Which feature selection technique uses shrinkage estimators to remove redundant features from data? *

- ( ) a. Stepwise regression
- ( ) b. Sequential feature selection
- (●) c. Regularization
- ( ) d. Neighborhood component selection

14. Identify the last learner algorithm..... *

- a. Decision Tree
- b. K means clustering
- c. K medoids
- d. K-NN Algorithm

15. What kind of learning algorithm for " Facial identities or Emotion identification"... *

- a. Recognizing Anomalies
- b. Prediction
- c. Generating Patterns
- d. Recognition Patterns

16. The area of AI that investigates methods of facilitating communication between people and computers is: *

- a. Anomaly Detection
- b. Association
- c. Natural Language Processing
- d. Decision Support System

17. To find the closest neighbours, the distance meterc for categorical data is used as---------- *

- a. Euclidean Distance
- b. Manhattan distance
- c. Minkowski distance
- d. Hamming distance

18. An iterative process in ML models builds the model parameter called as -------- * ------

- [ ] a. Mini-batches
- [ ] b. Optimized parameters
- [x] c. Hyperparameters
- [ ] d. Superparameters

19. Artificial Neural Network used for *

- [ ] a. Pattern Recognition
- [ ] b. Classification
- [ ] c. Clustering
- [x] d. All of these

20 .The algorithm used to assign observations to the discrete set of classes..... *

- [ ] a. Linear Regression
- [ ] b. Multiple Linear Regression
- [x] c. Logistic Regression
- [ ] d. Classification