Started on Thursday, 18 March 2021, 4:04 PM
State Finished
Completed on Thursday, 18 March 2021, 4:40 PM
Time taken 36 mins 39 secs
Grade **24.00** out of 30.00 (**80**%)

Question 1
Correct
Mark 1.00 out of 1.00

A collection of one or more items is called as _____

- a. Support Count
- b. Support
- c. Confidence
- d. Itemset ✔

The correct answer is: Itemset

Question 2
Correct
Mark 1.00 out of 1.00

An itemset whose support is greater than or equal to a minimum support threshold is _____

- a. Itemset
- b. Frequent Itemset ✔
- c. Threshold values
- d. Infrequent items

The correct answer is: Frequent Itemset

Question 3
Correct
Mark 1.00 out of 1.00

Assume you want to perform supervised learning and to predict number of newborns according to size of storks' population it is an example of

- a. Structural equation modeling
- b. Regression ✔
- c. Classification
- d. Clustering

The correct answer is: Regression

Question 4

Correct

Mark 1.00 out of 1.00

Bayesian classifiers is

a. An approach to the design of learning algorithms that is inspired by the fact that when people encounter new situations , they often explain them by reference to familiar experiences, adapting the explanations to fit the new situation

b. A class of learning algorithm that tries to find an optimum classification of a set of examples using the probabilistic theory ✔

c. None of these

d. Any mechanism employed by learning system to constrain the search space of a hypothesis

The correct answer is: A class of learning algorithm that tries to find an optimum classification of a set of examples using the probabilistic theory

Question 5

Correct

Mark 1.00 out of 1.00

Bias is

a. An approach to the design of learning algorithms that is inspired by the fact that when people encounter new situations, they often explain them by reference to familiar experience, adopting the explanations to fit the new situation

b. Any mechanism employed by a learning system to constrain the search space of a hypothesis ✔

c. None of these

d. Class of learning algorithm that tries to find an optimum classification of a set of examples using the probabilistic theory

The correct answer is: Any mechanism employed by a learning system to constrain the search space of a hypothesis

Question 6

Incorrect

Mark 0.00 out of 1.00

Choose the right ML method from the options given below?

a. Semi-reinforcement Learning

b. Supervised Learning ✖

c. Based on human supervision

d. All of the above

The correct answer is: Based on human supervision

Question 7

Correct

Mark 1.00 out of 1.00

Discriminating between spam and ham Emails is a classification task , true or false?

- a. False
- b. True ✔

The correct answer is: True

Question 8

Correct

Mark 1.00 out of 1.00

Expand PAC

- a. Proper Analysis Classifier
- b. Parametric Analysis Classifier
- c. Probably Approximately Correct ✔
- d. None of the above

The correct answer is: Probably Approximately Correct

Question 9

Correct

Mark 1.00 out of 1.00

Find the type of learning for the scenario, Given a patient X-ray image, diagnose if he has cancer?

- a. Unsupervised learning
- b. Reinforcement learning
- c. Supervised Learning ✔
- d. Semi supervised learning

The correct answer is: Supervised Learning

Question 10

Incorrect

Mark 0.00 out of 1.00

Find the type of learning for the scenario,Automatically group your personal collection of photographs in picasa into categories?

- a. Unsupervised learning
- b. Semi supervised learning
- c. Reinforcement learning
- d. Supervised Learning ✖

The correct answer is: Unsupervised learning

Question 11

Correct

Mark 1.00 out of 1.00

Find the type of learning for the scenario,Given a bank customer's profile should I sanction him a loan?

- a. Supervised Learning ✔
- b. Reinforcement learning
- c. Semi supervised learning
- d. Unsupervised learning

The correct answer is: Supervised Learning

Question 12

Correct

Mark 1.00 out of 1.00

Frequency of occurrence of an itemset is called as ____

- a. Rules
- b. Support
- c. Support Count ✔
- d. Confidence

The correct answer is: Support Count

Question 13

Correct

Mark 1.00 out of 1.00

Given a rule of the form IF X THEN Y, rule confidence is defined as the conditional probability that Select one

- a. X is false when Y is known to be false.
- b. Y is true when X is known to be true. ✔
- c. Y is false when X is known to be false.
- d. X is true when Y is known to be true

The correct answer is: Y is true when X is known to be true.

Question 14

Correct

Mark 1.00 out of 1.00

How many coefficients do you need to estimate in a simple linear regression model (One independent variable)?

- a. 1
- b. 3
- c. 4
- d. 2 ✔

The correct answer is: 2

Question 15

Correct

Mark 1.00 out of 1.00

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. no change
- b. by 1
- c. by intercept
- d. by its slope ✔

The correct answer is: by its slope

Question 16

Correct

Mark 1.00 out of 1.00

In what areas Pattern Recognition is used?

- a. Computer Vision
- b. Speech Recognition
- c. Market Analysis
- d. Option a and b ✔

The correct answer is: Option a and b

Question 17

Incorrect

Mark 0.00 out of 1.00

Select the correct statement about Machine Learning?

- a. Machine Learning (ML) is that field of computer science
- b. All of the above
- c. ML is a type of artificial intelligence that extract patterns out of raw data by using an algorithm or method. ✖
- d. The main focus of ML is to allow computer systems learn from experience without being explicitly programmed or human intervention.

The correct answer is: All of the above

Question 18

Incorrect

Mark 0.00 out of 1.00

Select the Popular algorithms of Machine Learning?

- a. Probabilistic networks
- b. All the above
- c. Neural Networks (back propagation)
- d. Decision Trees ✖

The correct answer is: All the above

Question 19

Incorrect

Mark 0.00 out of 1.00

Select the suitable meaning for outlier

- a. Data do not obey rules ✖
- b. Noisy data
- c. Both a and b
- d. Random data

The correct answer is: Both a and b

Question 20

Correct

Mark 1.00 out of 1.00

Select the true statement

- a. The main focus of ML is to allow computer systems learn from experience without being explicitly programmed or human intervention.
- b. All of the above ✔
- c. Machine Learning (ML) is that field of computer science
- d. ML is a type of artificial intelligence that extract patterns out of raw data by using an algorithm or method

The correct answer is: All of the above

Question 21

Correct

Mark 1.00 out of 1.00

Select the wrong statement.

- a. Least squares is not an estimation tool ✔
- b. None of the mentioned
- c. Normalizing variables results in the slope being the correlation
- d. Regression through the origin yields an equivalent slope if you center the data first

The correct answer is: Least squares is not an estimation tool

Question 22

Incorrect

Mark 0.00 out of 1.00

Some telecommunication company wants to segment their customers into distinct groups in order to send appropriate subscription offers, this is an example of

- a. Supervised learning ✖
- b. Serration
- c. Unsupervised learning
- d. Data extraction

The correct answer is: Unsupervised learning

Question 23

Correct

Mark 1.00 out of 1.00

Specify the function that separates the examples of different classes

- a. Binary function
- b. Bi polar function
- c. Linear function
- d. Discriminant function ✔

The correct answer is: Discriminant function

Question 24

Correct

Mark 1.00 out of 1.00

What do you mean by support(A)?

- a. Total number of transactions containing A
- b. Number of transactions not containing A / Total number of transactions
- c. Total Number of transactions not containing A
- d. Number of transactions containing A / Total number of transactions ✔

The correct answer is: Number of transactions containing A / Total number of transactions

Question 25

Correct

Mark 1.00 out of 1.00

What is the relation between a candidate and frequent itemsets?

- a. Strong relation with transactions
- b. A candidate itemset is always a frequent itemset
- c. A frequent itemset must be a candidate itemset ✔
- d. No relation between these two

The correct answer is: A frequent itemset must be a candidate itemset

Question 26

Correct

Mark 1.00 out of 1.00

When do you consider an association rule interesting?

- a. If it satisfies both min_support and min_confidence ✔
- b. There are other measures to check so
- c. If it only satisfies min_support
- d. If it only satisfies min_confidence

The correct answer is: If it satisfies both min_support and min_confidence

Question 27

Correct

Mark 1.00 out of 1.00

Which of the following is the direct application of frequent itemset mining?

- a. Intrusion Detection
- b. Outlier Detection
- c. Social Network Analysis
- d. Market Basket Analysis ✔

The correct answer is: Market Basket Analysis

Question 28

Correct

Mark 1.00 out of 1.00

Which of the following metrics can be used for evaluating regression models?

- [x] a. R Squared
- [ ] b. Polynomial equation
- [x] c. Adjusted R Squared
- [ ] d. Confusion Matrix

The correct answers are: R Squared, Adjusted R Squared

Question 29

Correct

Mark 1.00 out of 1.00

You are given data about seismic activity of a country, and you want to predict a magnitude of the next earthquack, this is in an example of

- a. Unsupervised learning
- b. Serration
- c. Supervised learning
- d. Data extraction

The correct answer is: Supervised learning

Question 30

Correct

Mark 1.00 out of 1.00

In the mathematical Equation of Linear Regression $Y = \beta1 + \beta2X + \epsilon$, ($\beta1$, $\beta2$) refers to _____

- A. X-intercept, Slope
- B. slope, Y-Intercept
- C. Slope, X-Intercept
- D. Y-Intercept, Slope

Your answer is correct.

The correct answer is:
Y-Intercept, Slope

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Sathyabama Learning Management System ~Developed by Cognibot

e-Resources

INFO

Facebook

Twitter

Instagram

YouTube

GET SOCIAL