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WEB | MOBILE | DIGITAL SOLUTIONS

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Technical Test Result

DESCRIPTION	STATUS
Attempted Questions	15
Blank Answer	0
Basic Correct	8
Optional Correct	0

1. Which search method takes less memory

- (A) Depth-First search
- (B) Breadth-First serach ✔
- (C) Linear Search
- (D) Optimal Search

2. Which condition is used to influence a variable directly by all the others?

- (A) Partially connected
- (B) Fully connected ✔
- (C) Local connected
- (D) None of the mentioned

3. Web Crawler is a/an

- (A) Intelligent goal-based agent ✔
- (B) Problem-solving agent
- (C) Simple reflex agent
- (D) Model based agent

4. Which object recognition process is an error-prone process

◉ (A) Bottom-up segmentation ✔
○ (B) Top-down segmentation
○ (C) Both Bottom-up & Top-down segmentation
○ (D) None of the mentioned

5. Which of the following machine learning algorithm can be used for imputing missing values of both categorical and continuous variables?

◉ (A) K-NN ✔
○ (B) Linear Regression
○ (C) Logistic Regression
○ (D)

6. In k-NN it is very likely to overfit due to the curse of dimensionality. Which of the following option would you consider to handle such problem?

○ (A) Dimensionality
○ (B) Feature selection
◉ (C) A and B ✔
○ (D) None of these

7. Which of the following statements is true for k-NN classifiers?

○ (A) The classification accuracy is better with larger values of k
○ (B) The decision boundary is smoother with smaller values of k
○ (C) The decision boundary is linear
◉ (D) k-NN does not require an explicit training step ✔

8. Which of the following algorithm doesn't uses learning Rate as of one of its hyperparameter?

◉ (A) Random Forest ✔
○ (B) Gradient Boosting
○ (C) AdaBoost
○ (D)

9. When you use the boosting algorithm you always consider the weak learners. Which

of the following is the main reason for having weak learners?

○ (A) To prevent overfitting ✔
◉ (B) To prevent under fitting
○ (C) To prevent overfitting and underfitting
○ (D) None of these

10. Which is true for neural networks?

○ (A) It has set of nodes and connections
○ (B) Each node computes it's weighted input
○ (C) Node could be in excited state or non-excited state
◉ (D) All of the mentioned ✔

11. What is the objective of backpropagation algorithm?

◉ (A) to develop learning algorithm for multilayer feedforward neural network
○ (B) to develop learning algorithm for single layer feedforward neural network
○ (C) to develop learning algorithm for multilayer feedforward neural network, so that network can be trained to capture the mapping implicitly ✔
○ (D) none of the mentioned

12. What is true regarding backpropagation rule?

○ (A) it is a feedback neural network
○ (B) actual output is determined by computing the outputs of units for each hidden layer ✔
◉ (C) hidden layers output is not all important, they are only meant for supporting input and output layers
○ (D) none of the mentioned

13. p(s=1|x) = 1/(1+exp(-x/T))) ,where 's' is the output given the activation 'x' is a?

○ (A) hopfield network
○ (B) sigma network
○ (C) stochastic network ✔
◉ (D) none of the mentioned

14. One of the main challenge/s of NLP Is _

○ (A) Handling Ambiguity of Sentences ✔
○ (B) Handling Tokenization
○ (C) Handling POS-Tagging
◉ (D) All of the mentioned

15. Morphological Segmentation

○ (A) Does Discourse Analysis
◉ (B) Separate words into individual morphemes and identify the class of the morphemes ✔
○ (C) Is an extension of propositional logic
○ (D) None of the mentioned