

## Data Science MCQ

The design is the process of using data to find solutions/ to predict the outcomes of a problem statement.

It is also known as data-driven science and is an interdisciplinary field about scientific methods and processes and systems to extract knowledge or insights from data in various forms structured or unstructured.

There are mainly 5 stages in the data science process:

- Understanding business problem
- Data collection
- Data cleaning and Exploration
- Model building
- Collect insights

**Artificial intelligence, Machine learning, and Deep learning are a part of [Data Science](#).**

Machine learning is the Science of Getting computers to learn without being explicitly programmed. Machine learning works on a simple concept that is understanding with experiences.

The primary aim of machine learning is to allow computers to learn automatically without human interaction.

### Types of machine learning:

- Supervised learning:
    - in supervised learning, given training explains examples of Input and corresponding output, the machine can predict outputs for new inputs
    - in supervised learning, we train the images concerning data that is well labelled and with the correct output.
  - Unsupervised learning:
    - Unsupervised learning deals with the unlabeled data
    - No training data set is provide
- Therefore it must work on its c

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Artificial Intelligence is one of the booming fields in the computer science field, which is bringing about a global revolution by making intelligent machines. It is currently all around us in the modern world and is making an entry into every field ranging from playing chess to robotics, to self-driving cars, to proving mathematical theorems.

Artificial Intelligence is made up of 2 words Artificial meaning "Man-Made" and Intelligence meaning "power to think", making it a "man-made thinking machine". The end goal of Artificial Intelligence is to make a machine that can think like humans and make decisions based on certain factors.

### Goals of Artificial Intelligence:

The main goals Artificial Intelligence aims to achieve are as follows:

- Solve knowledge-intensive tasks.
- Replicate human intelligence to make meaningful decisions.
- Building a machine that can perform tasks that usually require human intelligence.
- Build a machine that demonstrates intelligent behaviour and is capable of learning new stuff from past data/experiences.

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- ☐ C++
- ☒ R
- ☐ Java
- ☐ Ruby

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2. Choose the correct components of data science.

- ☐ domain expertise
- ☐ data engineering
- ☐ advanced computing
- ☒ all of the above

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3. Which of the following is not a part of the data science process?

- ☒ communication building
- ☐ operationalize
- ☐ model planning
- ☐ Discovery

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4. Total groups in which data can be characterized is?

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4

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5. Choose whether the following statement is true or false: Unstructured data is not organized

- ☒ True
- ☐ False
- ☐ maybe true or false
- ☐ cannot be determined

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6. A column is a \_\_\_\_\_ - representation of data.

- ☐ Diagonal
- ☒ Vertical
- ☐ Top
- ☐ horizontal

Show Explanation

7. Choose whether the following statement is true or false: A data frame is an unstructured representation of data

- ☐ True
- ☒ False

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8. Among the following identify the one in which dimensionality reduction reduces.

- ☐ Performance
- ☒ Entropy
- ☐ Stochastics
- ☐ collinearity

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9. Machine learning is a subset of which of the following.

- ☒ Artificial intelligence
- ☐ deep learning
- ☐ data learning
- ☐ none of the above

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10. FIND-S algorithm ignores?

- ☒ Positive
- ☐ Negative
- ☐ Both
- ☐ None

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11. Full form of PAC is \_\_\_\_\_

- ☐ Probably Approx Cost
- ☐ Probably Approximate Correct
- ☐ Probability Approx Communication
- ☒ Probably Approximate Computation

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12. Total types of layer in radial basis function neural networks is \_\_\_\_\_

- ☐ 1
- ☐ 2
- ☒ 3

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13. Choose whether true or false: Decision tree cannot be used for clustering

- ☐ True
- ☒ False

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14. Procedural Domain Knowledge in a rule-based system, is in the form of?

- ☐ Meta-Rules
- ☐ Control Rules
- ☒ Production Rules
- ☐ None of the above

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15. Which of the following architecture is also known as systolic arrays?

- ☐ MISD
- ☒ SISD
- ☐ SIMD
- ☐ None of the above

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16. Machines running LISP are also called?

- ☐ AI Workstations
- ☐ Time-Sharing Terminals
- ☐ Both A and B
- ☐ None of the above

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17. A hybrid Bayesian Network consists of?

- ☒ Discrete Variables
- ☐ Continuous Variables
- ☐ Both A and B
- ☐ None of the above

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18. Identify the key data science skills among the following

- ☐ data visualization
- ☐ machine learning
- ☐ Statistics
- ☒ all of the above

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19. Raw data should be processed only one time. Is the following statement true or false?

- ☐ True
- ☒ False

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20. Identify the revision control system on the following.

- ☐ Scipy
- ☐ Numpy
- ☒ Git
- ☐ Slidify

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21. Among the following options identify the one which is false regarding regression.

- ☐ it is used for the prediction
- ☐ it is used for interpretation
- ☐ it relates inputs to outputs
- ☒ it discovers casual relationships

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22. Choose the general limitations of the backpropagation rule among the following.

- ☐ slow convergence
- ☐ Scaling
- ☐ local minima problem
- ☒ All of the above

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23. Choose the instance-based learner.

- ☒ Eager learner
- ☐ lazy learner
- ☐ both a and b are correct
- ☐ none of the above

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24. Choose whether the following statement is true or false: Artificial intelligence is the process that allows a computer to learn and make decisions like humans.

- ☒ True
- ☐ False

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25. What does K stand for in K mean algorithm?

- ☒ number of clusters
- ☐ number of data
- ☐ number of attributes
- ☐ Number of iterations

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26. Which of the following machine learning algorithm is based upon the idea of bagging?

- ☐ decision tree
- ☒ random-forest
- ☐ Classification
- ☐ regression

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27. Choose a disadvantage of decision trees among the following.

- ☐ Decision trees are robust to outliers
- ☐ factor analysis
- ☐ decision trees are prone to overfit
- ☒ All of the above

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28. Which of the following is not a supervised learning

- ☒ PCA
- ☐ Naive Bayesian
- ☐ linear regression

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29. Identify the clustering method which takes care of variance in data

- ☐ Decision tree
- ☐ Gaussian mixture model
- ☐ K means
- ☐ All of the above

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30. Among the following options choose which one of the following focuses on the discovery of unknown properties on the data.

- ☐ Big data
- ☒ Data mining
- ☐ Machine learning
- ☐ Data wrangling

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31. Identify the model which is usually a gold standard for data analysis

- ☐ Casual
- ☐ Inferential
- ☐ Descriptive
- ☐ all of the above

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32. Another name of data fishing is?

- ☐ Data merging
- ☐ Data dredging

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☐ None of the above

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33. CLI stands for \_\_\_\_\_

- ☒ Command-line interface
- ☐ Command language interface
- ☐ Command-line intercom
- ☐ None of the above

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34. Choose whether the following statement is true or false: Time deltas are differences in times, expressed in difference units

- ☒ True
- ☐ False

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35. Among the following, choose the correct application of data science in Healthcare.

- ☐ Data science for genomics
- ☐ Data science for medical imaging
- ☐ Drug discovery with data science
- ☒ All of the above

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36. Identify the Incorrect CLI command.

- ☐ clear
- ☐ rm
- ☒ delete

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37. Total principles of analytical graphs that exist are \_\_\_\_\_

- ☐ 2
- ☒ 4
- ☐ 6
- ☐ 8

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38. Knowledge in AI can be represented as?

- ☐ Predicate Logic
- ☐ Propositional Logic
- ☒ Both A and B
- ☐ None of the above

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39. Inference engines work on the principle of?

- ☐ Backward Chaining
- ☐ Forward Chaining
- ☒ Both A and B
- ☐ None of the above

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40. Components of an expert system are?

- ☐ Knowledge base
- ☐ User interface

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☒ All of the above

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41. How many types of observing environments are there?

☒ 2

☐ 3

☐ 0

☐ 1

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42. Another name of data dredging is

☐ Data booting

☐ Data bagging

☐ Data snooping

☐ Data merging

Show Explanation

43. Out of the given options, which of the following algorithms uses the least memory?

☒ DFS

☐ BFS

☐ Both A and B are the same

☐ Cannot be compared

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44. What are different machine learning methods?

☐ Memorization

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- ☐ Deduction
- ☒ All of the above

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45. The different types of machine learning are?

- ☐ Supervised
- ☐ Unsupervised
- ☐ Reinforcement
- ☒ All of the above

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46. Artificial Intelligence is associated with computers of which generation?

- ☐ Second
- ☐ First
- ☒ Fifth
- ☐ Third

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47. PEAS is an abbreviation for?

- ☐ Peace, Environment, Action, Sense
- ☐ Peer, Environment, Actuators, Sensors
- ☒ Performance, Environment, Actuators, Sensors
- ☐ Performance, Environment, Actuators, Sense

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48. Among the following SGD variant, \ adaptive learning.

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- ☐ Adam
- ☒ Nesterov
- ☐ Adagrad

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49. Identify the activation function output which is zero centered

- ☒ Hyperbolic tangent
- ☐ Rectified linear unit
- ☐ Sigmoid
- ☐ Softmax

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50. Among the following logic function, which of the following cannot be implemented by a perceptron having two inputs

- ☒ XOR
- ☐ NOR
- ☐ OR
- ☐ AND

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