Question # 19

⟳ Revisit

What is the goal of artificial intelligence?

Choose the best option

○ To solve real-world problems

○ To solve artificial problems

○ To explain various sorts of intelligence

○ To extract scientific causes

Question # 17

What does autocovariance measure?

⟳ Revisit

Choose the best option

○ Linear dependence between multiple points on times

○ Quadratic dependence between two points on

○ Linear dependence between two points on diff

○ Linear dependence between two points on the

Question # 11

🖊 Revisit

Logistic regression assumes a:

Choose the best option

○ Linear relationship between continuous

○ Linear relationship between continuous variable.

○ Linear relationship between continuou

○ Linear relationship between observati

linear relationship between continuous variable and the outcome variable

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Question # 16

⏲ Revisit

Choose the best option

The target attributes indicates the value of?

○ Leaf Node

○ Decision Node

○ Path

○ Arc/Edge

Question # 6

⟳ Revisit

Choose the best option

What is the disadvantage of decision trees?

○ Prone of Overfitting

○ Robust to Outlier

○ Factor Analysis

○ All of these

Question # 3

⟲ Revisit

Choose the best option

What is the minimum no. of variables/ features required to perform clustering?

○ 0

○ **1**

○ 2

○ 3

Question # 8

⟳ Revisit

Which of the following statement is TRUE about the Bayes Classifier?

Choose the best option

○ Bayes classifier works on the Bayes theorem of probability.

○ Bayes classifier is an unsupervised learning algorithm.

○ Bayes classifier is also known as maximum apriori classifier.

○ It assumes the independence between the independent variable

Question # 2

⏱ Revisit

SVM is a supervised Machine Learning can be used for

Choose the best option

○ Regression

○ Classification

○ For both Regression and Cl

○ None of these

Question # 24   ⟳ Revisit

Choose the best option

Which one of the following statements is TRUE for a Decision Tree?

○ Decision tree is only suitable for the classifica

○ In a decision tree, the entropy of a node dec

○ In a decision tree, entropy determines purity

○ Decision tree can only be used for only num

Question # 34   ⟲ Revisit

Choose the best option

Real-Time decisions, Game AI, Learning Tasks, Skill acquisition, and Robot Navigation are applications of _____

○ unsupervised learning

○ supervised learning

○ reinforcement learning

○ active learning

Question # 39   ⟳ Revisit

Classification done in Euclidean distance is comparing feature vectors of ?

Choose the best option

○ Same Point

○ Within Point

○ Different Point

○ None of these

Question # 25   ⟳ Revisit

How to handle missing data in a dataset?

Choose the best option

○ Drop missing rows or columns

○ Assign a unique category to missing values

○ Replace missing values with mean/median/mode

○ All of these

Question # 28   ⓒ Revisit

_____ is a technique or way to find the linear relation between the dependent
variable and the independent variable by minimizing the distance.

Choose the best option

○ Linear Regression

○ Random Forest

○ SVM

○ KNN

Question # 30

  ✎ Revisit

Choose the best option

What kind of distance metric(s) are suitable for categorical variables to find the closest neighbors?

○ Euclidean distance.

○ Manhattan distance.

○ Minkowski distance.

○ Hamming distance.

Question # 31   ⟳ Revisit

The most widely used metrics and tools to assess a classification model are:

Choose the best option

○ Confusion matrix

○ Cost-sensitive accuracy

○ Area under the ROC curve

○ All of these

Question # 29

⟳ Revisit

What is perceptron?

Choose the best option

○ a single layer feed-forward neural network with pre-p

○ an auto-associative neural network

○ a double layer auto-associative neural network

○ a neural network that contains feedback

Question # 21

⟳ Revisit

Which of the following is true?

Choose the best option

○ On average, neural networks have highe computers.

○ Neural networks learn by example.

○ Neural networks mimic the way the hur

○ All of these

Question # 23   ⏱ Revisit

Which of the following is a subset of machine learning?

Choose the best option

○ Numpy

○ SciPy

○ Deep Learning

○ All of these

Question # 26

⟳ Revisit

Which of the following are Features of Scikit Learn?

Choose the best option

○ It is open source library and also commercially u

○ It is used to identify useful attributes to create s

○ It is used to extract the features from data to de

○ All of these

Question # 38   ↻ Revisit

_____ algorithms enable the computers to learn from data, and even improve themselves, without being explicitly programmed.

Choose the best option

○ Deep Learning

○ Machine Learning

○ Artificial Intelligence

○ None of these

Question # 36   ⟳ Revisit

The robotic arm will be able to paint every corner in the automotive parts while minimizing the quantity of paint wasted in the process. Which learning technique is used in this problem?

Choose the best option

○ unsupervised learning

○ supervised learning

○ reinforcement learning

○ active learning

Question # 22   ⟳ Revisit

What can we use in Hierarchical Clustering to find the right number of clusters ?

Choose the best option

○ The Elbow Method

○ Decision Trees

○ Dendrograms

○ Histograms

Question # 40   ⟳ Revisit

Which of the following statement is TRUE?

Choose the best option

○ Outliers should be identified and removed always f

○ Outliers can never be present in the testing datase

○ Outliers is a data point that is significantly close to

○ The nature of our business problem determines

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Question # 35   ✒ Revisit

What is the field of Natural Language Processing (NLP)?

Choose the best option

○ Computer Science

○ Artificial Intelligence

○ Linguistics

○ All of these

Question # 27

🖉 Revisit

Logistic regression is used when you want to:

Choose the best option

○ Predict a dichotomous variable from continuous or dich

○ Predict a continuous variable from dichotomous variab

○ Predict any categorical variable from several other cat

○ Predict a continuous variable from dichotomous or co

Question # 5

⟳ Revisit

Choose the best option

Which of the following algorithm is most sensitive to outliers?

○ K-means clustering algorithm

○ K-medians clustering algorithm

○ K-modes clustering algorithm

○ K-medoids clustering algorithm

Question # 1   ⟳ Revisit   **Choose the best option**

In dataset loading, The variables of data are called its?   ○ Response

○ Features

○ Target

○ Vector

Question # 4

⟳ Revisit

Choose the best option

Which of the following is not an example of a time series model?

○ Naive approach

○ Exponential smoothing

○ Moving Average

○ ARIMA

Question # 7

🖊 Revisit

Sum of weights in exponential smoothing is _____.

Choose the best option

○ <1

○ 1

○ >1

○ None of these

Question # 10

✏ Revisit

find the minimum or the maximum of a function, we set the gradient to zero because:

Choose the best option

○ The value of the gradient at extrema of a funct

○ Depends on the type of problem

○ Depends on Data

○ None of these

uestion # 9

⏲ Revisit

Choose the best option

me to classify a new example than with a model in KNN requires?

○ Depends on Data

○ More Time

○ Less tlme

○ None of these

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Question # 15

🕐 Revisit

Choose the best option

MSE stands for ?

○ Machine Squared Error

○ Mean Simple Error

○ Mean Squared Evaluate

○ Mean Squared Error

Question # 14   ✐ Revisit   **Choose the best option**

What are the advantages of neural networks over conventional computers?

○ They have the do not ability to learn by example

○ They are less fault tolerant

○ They are more suited for real time operation due to

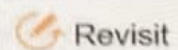○ All of these

Question # 13

⟳ Revisit

How do you choose the right node while constructing a decision tree?

Choose the best option

○ An attribute having high entropy

○ An attribute having high entropy and informat

○ An attribute having the lowest information ga

○ An attribute having the highest information g

Question # 21

🔄 Revisit

Choose the best option

Which of the following is true?

○ On average, neural networks have higher comput computers.

○ Neural networks learn by example.

○ Neural networks mimic the way the human brain

○ All of these

Question # 18   ⟳ Revisit

Slack variables ε, can be added to allow misclassification of difficult or noisy examples, resulting margin is called?

Choose the best option

○ Soft Margin

○ Null Margin

○ High Margin

○ Low Margin

Question # 12   ⟳ Revisit   **Choose the best option**

What is the main challenge/s of NLP?   ○ Handling Ambiguity of Sentences

                                                                          ○ Handling Tokenization

                                                                          ○ Handling POS-Tagging

                                                                          ○ All of these

Question # 20   ✐ Revisit   **Choose the best option**

In what type of learning labelled training data is used   ○ unsupervised learning

○ supervised learning

○ reinforcement learning

○ active learning