AIML Assessment BC-101

Points: 20/20 ✓ **Correct** 1/1 Points 1. You have a dataset of exam scores for multiple subjects. You create a box plot for each subject's scores. In which part of the box plot would you find the first quartile (Q1)? Upper Whisker Box (IQR) Lower Whisker Median ✓ **Correct** 1/1 Points 2. You are exploring a dataset and want to visualize the distribution of data points to identify potential outliers. Which graphical representation is commonly used for this purpose? Line Plot **Box Plot**

Pie Chart
Bar Chart
✓ Correct 1/1 Points
3. What will be the output of following code?
import numpy as np
arr = np.array([100, 200, 300, 400, 500, 600, 700]) print(arr[::-2])
[100 300 500 700]
[200 400 600]
[700 500 300 100]
[600 400 200]
✓ Correct 1/1 Points
4. In regression analysis, the variable that is being predicted is:
the source variable
the source variable
the target variable
usually denoted by x
usually denoted by r

✓ **Correct** 1/1 Points

DataFrame?			
	Lists, Dict		
	Series		
	Numpy Arrays		
	All of the above mentioned		
	✓ Correct 1/1 Points		
6.	You have a CSV file named "employee_data.csv" containing the details of employees working in an organization. Which Pandas function would you use to read this CSV file into a DataFrame?		
	pd.load_csv("employee_data.csv")		
	pd.read_excel("employee_data.csv")		
	pd.read_csv("employee_data.csv")		
	pd.load("employee_data.csv")		
	✓ Correct 1/1 Points		
7.	What evaluation metrics are used for Regression ML Algorithm?		
	Precision, Recall and F1-Score		
	MSE, RMSE and MAE		
	Any one of the Above		
	None of the Above		

<!--</b-->	Correct	1/1 Points

8. Which of the following module is used to create n-dimensional arrays?

() pandas

plotly

numpy

seaborn

✓ **Correct** 1/1 Points

9. You are working on a project to predict the salary of an employee who is joining the organization based on certain parameters. Which type of regression algorithm would be most suitable for this task?

Logistic Regression

Decision Tree Regression

Linear Regression

None of the Above

✓ **Correct** 1/1 Points

10. What will be the output of the below code?

import pandas as pd srs_1 = pd.Series([10, 20, 30, 40, 50]) srs_2 = srs_1 * 3 print(srs_2.values)

[10, 20, 30, 40, 50, 10, 20, 30, 40, 50, 10, 20, 30, 40, 50]

[10, 10, 10, 20, 20, 20, 30, 30, 30, 40, 40, 40, 50, 50, 50]		
[30, 60, 90, 120, 150]		
Result an Error		
✓ Correct 1/1 Points		
11. Which of the following statement will display 3rd row to 7th row and first 3 columns?		
df.iloc[2:7, :3]		
df.iloc[3:8, 1:3]		
df.iloc[3:7:2, :3]		
df.iloc[2:7:2, 1:3]		
✓ Correct 1/1 Points		
12. Which of the following is used to find the distance between two data points?		
euclidean distance		
precision and recall		
mean squared distance		
All of the above		

✓ **Correct** 1/1 Points

13. You are building a predictive model for housing prices. During data preprocessing, you observe some outliers in the target variable (prices). Which of the following

actions is generally recommended to handle these outliers?		
Replace outliers with the median of the target variable		
Replace outliers with the mean of the target variable		
No action is required; outliers do not affect regression models		
Exclude the outliers from the dataset		
✓ Correct 1/1 Points		
14. A residual (error) is defined as		
The difference between the actual Y values and the mean of Y		
The predicted value of Y for the average X value		
The square root of the slope		
The difference between the actual Y values and the predicted Y values		
✓ Correct 1/1 Points		
15. You are working on a dataset that has a continuous target variable. After analyzing the data, you find a strong linear relationship between the input features and the target variable. Which regression algorithm would be most appropriate for this scenario?		
K-Nearest Neighbour		
Logistic Regression		
Linear Regression		
K-Means Clustering		

	✓ Correct	1/1 Points
16.		you want to use a standardized score to identify outliers. Which easure involves calculating how many standard deviations a data point nean?
	Variance	
	O IQR	
	Skewness	
	Z-Score	
	✓ Correct	1/1 Points
17.	In the regres	sion equation, $y = mx + c$, c is the
	slope of the	ne line
	y-intercep	pt
	independe	ent variable
	coefficien	t of determination
	✓ Correct	1/1 Points
18.		PataFrame named df with missing values in some rows. Which of the chnique will be used to fill the null records?
	Replace w	rith Mean, Meadian or Mode
	Forward F	illing

Backward Filling

	All of the Above			
	✓ Correct 1/	/1 Points		
19.	9. After applying k-means clustering, you want to assign each data point to its respective cluster. Which step of the k-means algorithm is responsible for th assignment?			
	Initialization of Centroids			
	Updating Ce	entroids		
	Calculating	distances		
	Assigning D	Pata Points to Clusters		
	✓ Correct 1/	/1 Points		
20.	For two runs or results?	of K-Means Clustering, is it expected to get the same clustering		

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