

1.Data Science(Week 5-7) - Set -1

Total points 13/15

Email *

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✓ Which visualization technique is useful to identify outliers? *

1/1

- A) Histogram
- B) Box Plot
- C) Line Plot

✓ What is the main characteristic of structured data? *

1/1

- A) It has no defined format
- B) It is organized into rows and columns
- C) It includes images and videos



✓ **What do the whiskers in a box plot represent? ***

1/1

- A) Mean value of the data
- B) Data points beyond the median
- C) The range of non-outlier data



✓ **What is the most appropriate measure of central tendency for skewed data? ***

1/1

- A) Mean
- B) Median
- C) Mode



✓ **In supervised learning, what do you predict? ***

1/1

- A) Clusters
- B) Labels or outcomes
- C) Missing values



✓ **What is the primary purpose of a confidence interval in statistics? ***

1/1

- A) To predict future data points
- B) To estimate the range of a population parameter
- C) To calculate variance



✓ Which of the following is not a Data Science sub-domain? *

1/1

- A) Descriptive Analysis
- B) Reinforcement Learning
- C) Time Series Forecasting

✓ Which value of correlation coefficient indicates a perfect negative relationship? *

1/1

- A) 0
- B) -1
- C) 1

✓ Which visualization is most suitable for categorical data? *

1/1

- A) Line Chart
- B) Pie Chart
- C) Histogram

✓ Which process helps in detecting patterns and anomalies in data before modeling? *

1/1

- A) Data Visualization
- B) Model Evaluation
- C) Model Training



X Which statistical method is used to measure the strength and direction of a linear relationship between two variables? *0/1

A) Correlation

B) Regression X

C) Variance

Correct answer

A) Correlation

✓ Which plot is best for understanding the distribution of a single variable? *1/1

A) Line Plot

B) Box Plot ✓

C) Bar Plot

✓ What is the primary purpose of Exploratory Data Analysis (EDA)? * 1/1

A) To find missing values

B) To summarize data and find patterns ✓

C) To create machine learning models



✓ When is a Chi-Square test used? *

1/1

- A) To compare means between two groups
- B) To test independence between categorical variables
- C) To measure variance

✗ What does a scatter plot primarily show? *

0/1

- A) Relationship between two variables
- B) Frequency distribution of data
- C) Average of numerical data

Correct answer

- A) Relationship between two variables

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