

# 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



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

☐ A) Correlation

☒ B) Regression ✗

☐ 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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