

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

Total points 8/15

Email \*

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✗ Which visualization technique is useful to identify outliers? \* 0/1

- ☒ A) Histogram ✗
- ☐ B) Box Plot
- ☐ C) Line Plot

Correct answer

- ☒ B) Box Plot

✗ Which plot is best for understanding the distribution of a single variable? \*0/1

- ☒ A) Line Plot ✗
- ☐ B) Box Plot
- ☐ C) Bar Plot

Correct answer

- ☒ B) Box Plot

✓ 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 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

✗ What is the primary purpose of Exploratory Data Analysis (EDA)? \* 0/1

- ☒ A) To find missing values ✗
- ☐ B) To summarize data and find patterns
- ☐ C) To create machine learning models

Correct answer

- ☒ B) To summarize data and find patterns

✓ In supervised learning, what do you predict? \* 1/1

- ☐ A) Clusters

☒ B) Labels or outcomes ✓

☐ C) Missing values

✓ What does a scatter plot primarily show? \*

1/1

☒ A) Relationship between two variables ✓

☐ B) Frequency distribution of data

☐ C) Average of numerical data

✓ What is the most appropriate measure of central tendency for skewed data? \*1/1

☐ A) Mean

☒ B) Median ✓

☐ C) Mode

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

0/1

☐ A) Descriptive Analysis

☐ B) Reinforcement Learning

☒ C) Time Series Forecasting ✗

Correct answer

☒ B) Reinforcement Learning

✗ Which process helps in detecting patterns and anomalies in data before modeling? \*0/1

☐ A) Data Visualization

☐ B) Model Evaluation

☒ C) Model Training ✗

Correct answer

☒ A) Data Visualization

✓ Which value of correlation coefficient indicates a perfect negative relationship? \*1/1

☐ A) 0

☒ B) -1 ✓

☐ C) 1

✓ 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



✓ **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

✗ **Which visualization is most suitable for categorical data? \***

0/1

☐ A) Line Chart

☐ B) Pie Chart

☒ C) Histogram



Correct answer

☒ B) Pie Chart

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