

2.Data Science(Week 5-7) - Set -2

Total points 14/15

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✓ In a box plot, what represents the median of the data? *

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- ☐ A) Top whisker
- ☐ B) Bottom whisker
- ☒ C) Central line inside the box



✓ If the correlation coefficient between two variables is 0.9, what does it imply? *1/1

- ☒ A) Strong positive correlation
- ☐ B) Weak correlation
- ☐ C) No correlation



✓ Which visualization is commonly used to show the frequency distribution of categorical data?

*1/1

- ☐ A) Line Chart
- ☒ B) Bar Plot
- ☐ C) Violin Plot



✓ Which plot is most suitable for analyzing the relationship between two continuous variables?

*1/1

- ☐ A) Box Plot
- ☒ B) Scatter Plot
- ☐ C) Pie Chart



✓ What is the primary goal of Univariate Analysis? *

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- ☐ A) To study the relationship between two variables
- ☒ B) To summarize and describe the main characteristics of one variable
- ☐ C) To predict future data points



✓ **In Bivariate Analysis, what is the main focus? ***

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- ☐ A) Analyzing one variable at a time
- ☒ B) Exploring the relationship between two variables
- ☐ C) Creating machine learning models



✓ **What is the primary purpose of using a heatmap in data visualization? ***

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- ☐ A) To compare time-series data
- ☒ B) To visualize the correlation between multiple variables
- ☐ C) To show the median value of a dataset



✓ **Which central tendency measure is influenced most by outliers? ***

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- ☒ A) Mean
- ☐ B) Median
- ☐ C) Mode



✓ **What does a violin plot combine? ***

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- ☒ A) Box plot and KDE (Kernel Density Estimate)
- ☐ B) Histogram and Scatter Plot
- ☐ C) Pie Chart and Line Plot



✓ **Which measure is often used to detect outliers in univariate analysis? ***

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- ☐ A) Mean
- ☒ B) Interquartile Range (IQR)
- ☐ C) Correlation Coefficient



✓ **Which visualization is best for identifying the spread of a single variable?**

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- ☐ A) Scatter Plot
- ☒ B) Histogram
- ☐ C) Line Plot



✓ **What is a characteristic feature of a normal distribution? ***

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- ☒ A) Symmetrical bell-shaped curve
- ☐ B) Long right tail
- ☐ C) Flat shape with no peaks



✓ **Which measure is used to find how spread out data points are? ***

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- ☐ A) Correlation
- ☒ B) Variance
- ☐ C) Mode



✗ **When two variables move in opposite directions, what is the correlation called? *0/1**

- ☒ A) Positive correlation
- ☐ B) Negative correlation
- ☐ C) Neutral correlation



Correct answer

- ☒ B) Negative correlation



✓ **What does a positively skewed distribution indicate? ***

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- ☒ A) Data has a longer tail on the right side
- ☐ B) Data has a longer tail on the left side
- ☐ C) Data is symmetrically distributed



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