Mock Test Report

Student: Saima Zainab Shroff

Date: March 27, 2025



Suggestions to Improve

The student demonstrates a gap in understanding data visualization techniques for continuous variables.

Data Visualization for Continuous Variables: Review the characteristics of histograms and their application in representing the distribution of a single continuous variable. Focus on understanding how bin size affects the interpretation of the histogram.

Data Visualization for Continuous Variables: Practice creating histograms using Python libraries like Matplotlib or Seaborn with different datasets. Experiment with varying the number of bins to observe the impact on the visualization.

Data Visualization for Continuous Variables: Compare and contrast histograms with other visualization techniques such as kernel density estimation plots (KDE) to understand their relative strengths and weaknesses in representing continuous data distributions.

Data Visualization for Continuous Variables: Analyze examples of histograms in research papers or data analysis reports to understand how they are used to communicate insights about data distributions.

When studying data visualization, focus on understanding the purpose of each chart type and which type is most appropriate for different data characteristics (e.g., continuous vs. categorical).

Practice actively by creating visualizations yourself using real-world datasets. This will reinforce your understanding of the concepts and their practical applications.

Correct Answers

Question	Correct Answer
Which of the following libraries is commonly used for data visualization in Python?	Matplotlib
What type of chart is best suited for showing the	

Histogram
Scatter Plot
Built-in themes for better aesthetics
Bar Chart

Generated on March 27, 2025 • ML Learning Platform