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STA301: Statistics and Probability
Solution GDB No. 1
Fall 2021

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Total Marks: 5
Due Date: 12-12-2021

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Question # 1

Why do we need to compute the measure of dispersion (variance and standard deviation) even if we have computed the measure of central tendency (mean, median, and mode, etc.)?

Question # 2

What is the difference between Pie Chart and Bar Chart? Why do we use them?

Note:

Don't Paste the answer in MDB. This GDB is graded and marks will be awarded on its performance.

Note: Answer should be relevant. Irrelevant and unnecessary lengthy materials will not be considered.

Also it is strictly informed that the answer will not be received through emails.

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Solution

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Question # 1

Why do we need to compute the measure of dispersion (variance and standard deviation) even if we have computed the measure of central tendency (mean, median, and mode, etc.)?

Answer:

Two different models may have same mean or median but have completely different level of variance and standard deviation. That's why we need to compute the measure of dispersion.

Question # 2

What is the difference between Pie Chart and Bar Chart? Why do we use them?

Answer:

Pie Chart is like pieces of a pie which shows the values in circular in the form of proportions of a whole circle. We can use Pie chart to compare areas of growth in our business such as loss, profit, etc, for categorical data in which each category can be shown as a slice of a circle etc. Bar Chart is a chart which shows the values of data in the form of rectangular bars. Bar Chart can be horizontal or vertical. We use Bar charts for comparison of our data, for time based data, for quick overview of varied collected data etc.