Statistics

Descriptive

1. Organize & Summarize Data Using Graphs & Numbers.
2. Bar Charts , Histograms , Pie Charts , etc.
3. Central Tendency By: Mean ,Median , Mode.
4. Variability By: Range , Variance , Standard Deviation.

- Mean : is the average of the sample values .
- Sum / Nunber of values.

- Mode : is the most Frequent element

- Median : is the middle element of the sample after sorting.
- if the number of elements is even then , Median = (The addition of 2 middle elements) / 2.

- Range : is the difference between the lowest & Highest Number.

- Variance : The sum of the squared differences between each data point and the mean .

- STD: The spread or dispersion of the data around the mean

Infrential

1. Using Sample Data to make an inference or draw a conclusion of Population.
2. Uses Probability to determine how conflict we can be that the conclusions are correct.

- IQR : The middle 50% of the data
- Equel to Q3 -Q1 .