In the previous video

- How median is calculated

- What is a quartile?

In this video
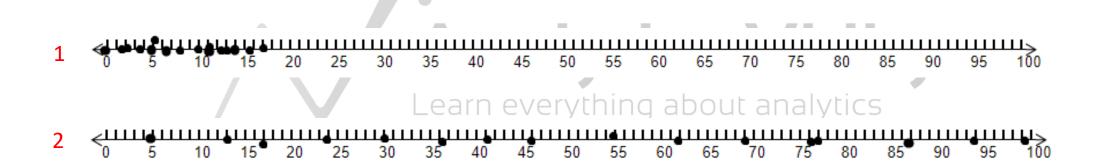
- Understanding spread of data

- Calculating and understanding the range of data

Spread of data

Spread of the data describes how similar or varied are the set of observations.

Range

- The difference between the smallest and largest values

- The bigger the range the more spread out is the data

Range or IQR

Range

- Susceptible to outliers
- Range = Max − Min

MIN   MAX

0, 12, 20, 31, 74, 61, 89, 99 100, 9700

- Range = 9700-0 = 9700
- Takes Entire data set into consideration

IQR

- Robust to outliers
- IQR = Q3 − Q1

Q1   Q3

0, 12, 20, 31, 74, 61, 89, 99, 100, 9700

- IQR = 99-20 = 79
- Takes 50% of data into consideration

Analytics Vidhya
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