iNeuron

ASSIGNMENT – STATISTICS

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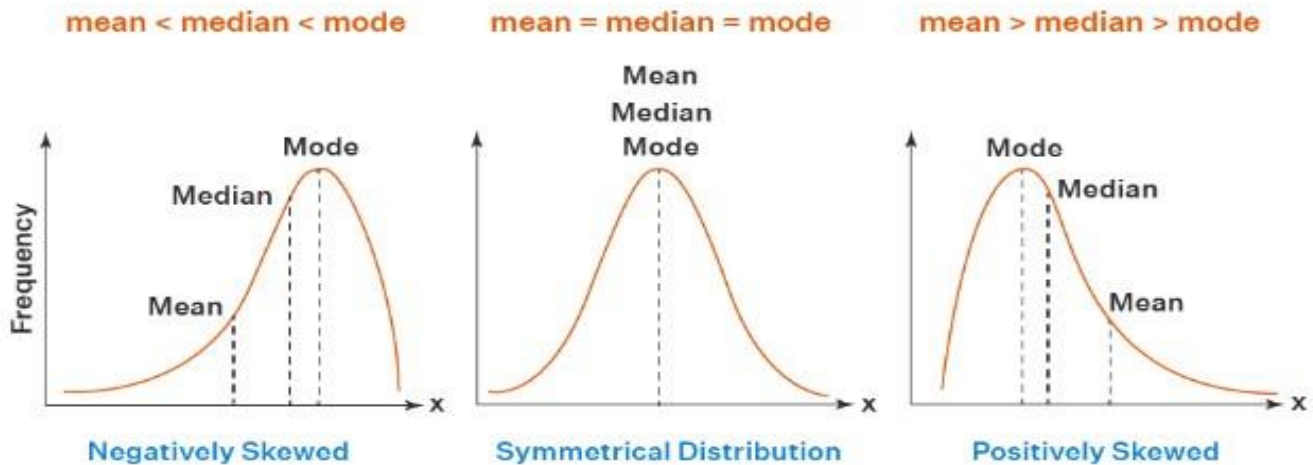Course – Full Stack Data

Analytics

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Assignment -4

Question :- Relationship between Mean, Median, Mode of Negatively , Positively Skewed , And Symmetrical Distribution.

| mean < median < mode | mean = median = mode | mean > median > mode |

1> In the case of a negatively skewed frequency distribution, the mean is always lesser than median and the median is always lesser than the mode. This is because the data are cocentrated on the right side of the distribution due to this the highest frequency is achieved at tail of the curve i.e. mode of the distribution which is highest .

2> In the case of symmentrical Distribution the mean is always equal to the median and the mode of the distribution. This is because the data are cocentrated at the center of the graph due this the highest frequency is achieved at the center of the graph at which the Mean = Median = Mode.

3> In the case of positively skewed frequency distribution the mean is always higher than the median is higher than the mode of the distribution.This is because the data are conentrated on the left side of the graph due to this highest frequency is achieved at body of the curve.