

Measures of Central Tendency & Percentile

Dataset : Placement.csv

Topic 1 : Mean,Median,Mode:

	sl_no	ssc_p	hsc_p	degree_p	etest_p	mba_p	salary
Mean	108	67.3034	66.3332	66.3702	72.1006	62.2782	288655
Median	108	67	65	66	71	62	265000
Mode	1	62	63	65	60	56.7	300000

Mean : It is the average of all the values of a column. The result is affected by outlier.

Median : It is the exact middle value of all the values. Outlier does not affect the median.

Mode : It is the most frequently occurring value in the column.

Detailed Interpretation from the Table:

1.ssc_p: (Mean=67.30,Median=67,Mode=62)

- mean is approx = median. This says there are no/very very less outliers.
- Mode is 62, so there are some high scores making high average. Most obtained mark is between 62-67.
- Mean>Median>Mode – Slightly Right skewed, Few outliers are pushing the mean up.

2.hsc_p: (Mean=66.33,Median=65,Mode=63)

- Mean is a bit greater than median. This says there are less outliers.
- Frequently occurred score is 63, there are some high scores making high mean. Most obtained mark is between 63-66.
- Mean>Median>Mode-Right skewed, few outliers are pushing the mean up.

3.degree_p: (Mean=66.37,Median=66,Mode=65)

- mean is approx = median. This says there are no/very very less outliers.
- Mode is 62, so there are some high scores making high average.
- Mean>Median>Mode – Slightly Right skewed, Few outliers are pushing the mean up.

4.etest_p: (Mean=72.10,Median=71,Mode=60)

- Mean is higher than median. there are more outliers.

- Mode is 60, so there are more high performers
- Mean>median>mode, right skewed.

5.mba_p: (Mean=62.27,Median=62,Mode=56.7)

- Mean is approx=median. So no/very less outliers.
- Most obtained mark is between 56-62
- Mean>Median>Mode – Right skewed. There are many high scores which are pushing the mean up.

6.salary: (Mean=288655,Median=265000,Mode=300000)

- Mean < Median. So there are quite some outliers in lower range.
- Most obtained salary is 300000, some outliers are pulling the mean down.
- Mode>Mean>Median – means some salaries were very low, pulling the mean down, despite high offers. There were many salaries below 265000. - Left skewed