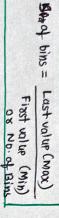
## Histogram

carata histogram do:

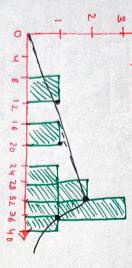
- Create bins (groups) Sort the values Casec)

No. of Bins = Mychoice



Ext Values = [10,20,25,30,35,40]

\* treg/count



Plotting Continous values as well as discrete



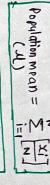
PDF: Probability density function PMF: Probability mass tuntion

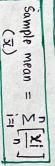
PPF use to smooth discrete histogram and PMF used smoothen Continous histogram.

Measure of Central Tendency. (MCT)

met is single value that attempts to describe a set of data identifying the central tendancy

@ Mean/Average:





But, I > M ox M>X depending

In practical, we use mean to seplace NAN values [Calthough not efficient) I skallfun of amp on sampling technique.

O Median:

To calculate it do Is sort the values Find central number if no. of values even , find

13 if no af values odd, find average of central numbers the central number

I central number is value in mid of the all

It no outliers use mean lit outliers use median to replace the NAM values.

-> Used to replace the NAN values in categorical data most trequent occurring element within the most trequent value

(9) Mrasure of Dispersion:

[4:1] Variance (52)

Population =  $\sum_{i=1}^{N} \frac{(x_i - \mu)^2}{N}$ 

Sample =  $\sum_{i=1}^{n} \frac{(x_i - \overline{x})^2}{n-1}$ (52)

Variante of sparod aldaha

Less variable,

Mosp variance posed shard

posseds ssal

4.2 Standard Deviation (Ju2) Bu > 81,2,3,4,53 , 4=3, 0 =2) . Tells how many standard deviation a value is away John mpan. 141= b

The wast from as 1 Line

4.41 5.82