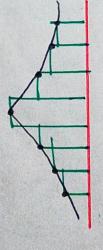
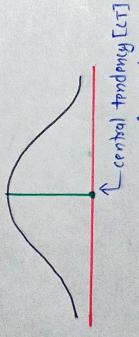
* Normal / Gaussian Distribution

- · type of continous probability
 distribution for real valued random
 variable.
- · BPII shapped Curve
- · Assumed that during any experiment measured values will follow this distribution with equal number of values before and after a central tendency (mainly median).

[KDE= Kernel Density Estimator]



apply KDE to smoothen the histogram to obtain bell curve.



Total area under curve is 13 or 100%.

as it is probability distribution.

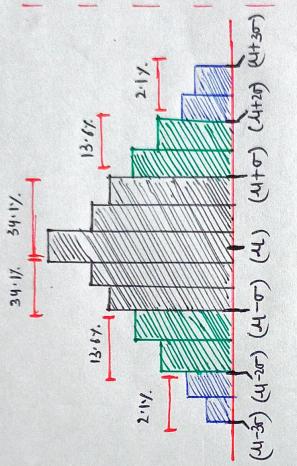
D 50% data lip on each side of CT

- Sy exp. it is found most imposition data like age, height, many moss follow this distribution.

65 - 95 - 39.7 /.

Empireal formula of haussian Distribution coules

4 = population mpan == standard deviation.



By expresimentation it is determined that for any Gaussian Distribution,

> 68-1. data lifes within the range of (34.1+34.1) | first standard deviations i.e., from (41-0) to (41+0)

(34.1+13.6+34.1+13.6) sprond standard drividiens -) 95%. data lives within range of the (4+20)

third standard deviotions lies within the range of i.e from (4-30) to (2.1+13.6+34.) 1 +34.1+13.6+2.1) > 99-7 % data