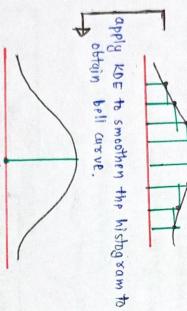
* Normal/Gaussian Distribution

- distribution for real valued random variable.
- · Bril shaped 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]



Contral tondency [CT]

D Total axea under curve is 1 or 100%.

OS it is probability distribution.

D sov. data live on each side of CT.

D sy exp. it is found most important data like age, height mong more tollow this distribution.

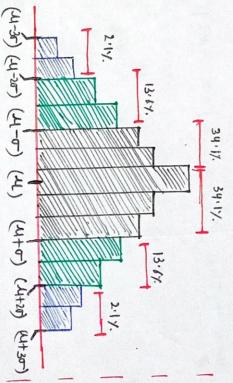
+34.1+13.6+2.1) 1.0 from (4-30) to

(4+30)

65 - 95 - 99·7 /.

5 Empircal formula of houssian Distribution

4 = population mpan = standard deviation.



By experimentation it is determined that for any Gaussian Distribution,

-> 68-1. data lies within the range of (34-1+34-1) | first standard deviations i.e.,

(34.1+13.6+34.1+13.6) sprand standard deviations (34.1+13.6+34.1+13.6) sprand standard deviations (1.2-2) to (1.4+2)

395.7.1. data lies within the range of (2.1+13.6+34.1) third standard deviations