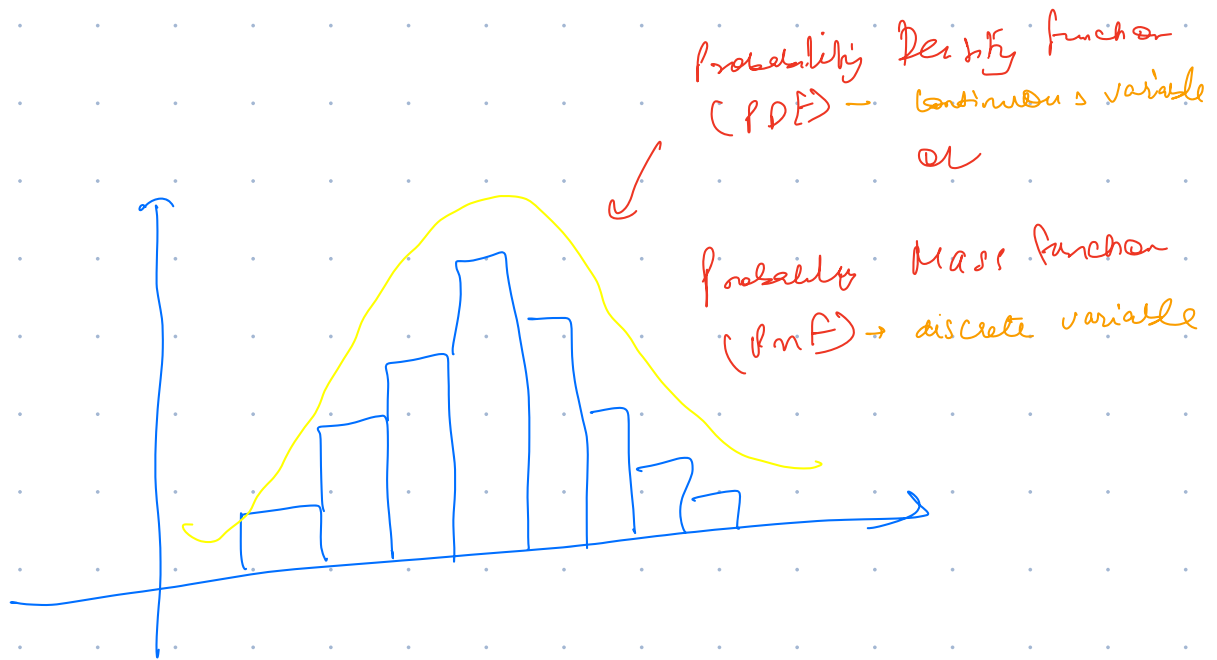


Distribution describes how values are distributed.



Continuous Variable : Use PDF

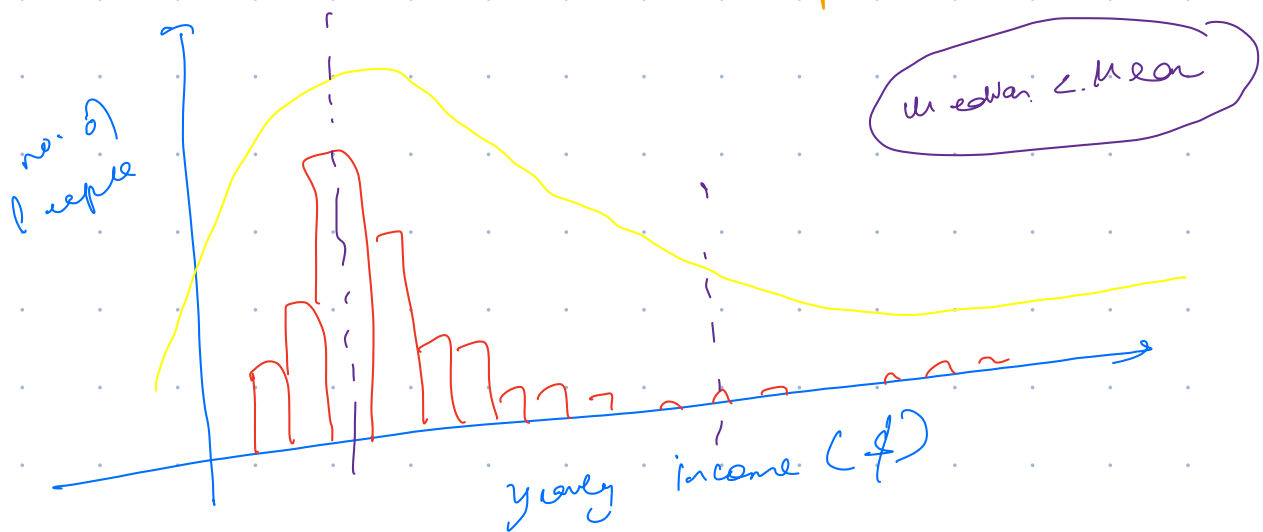
→ If you're measuring it likely continuous.
→ represent measurable amounts that can take on any value within a range.
eg: height, weight, temperature, time.

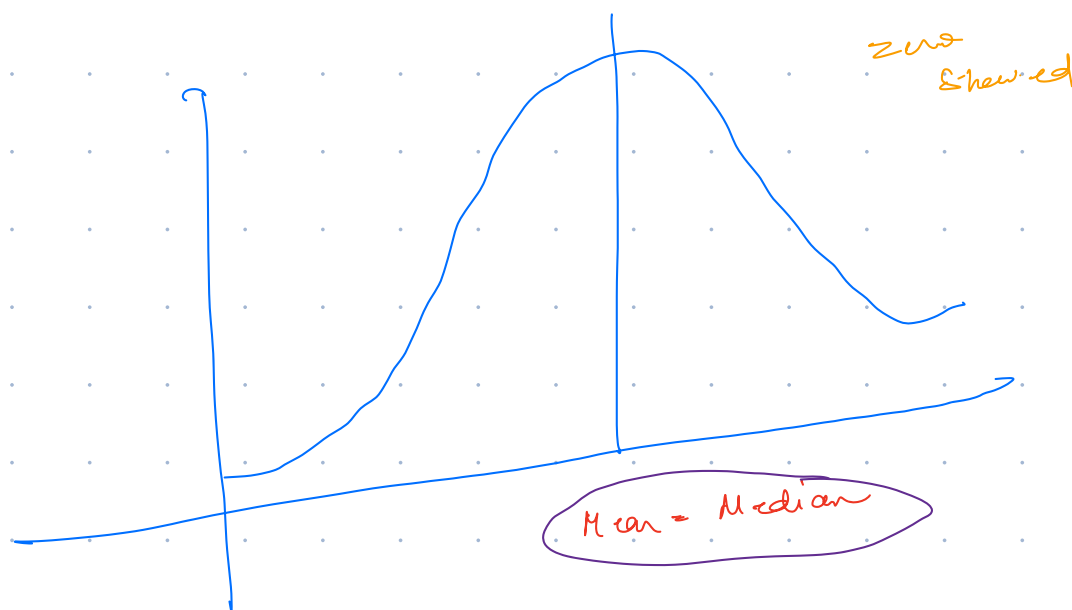
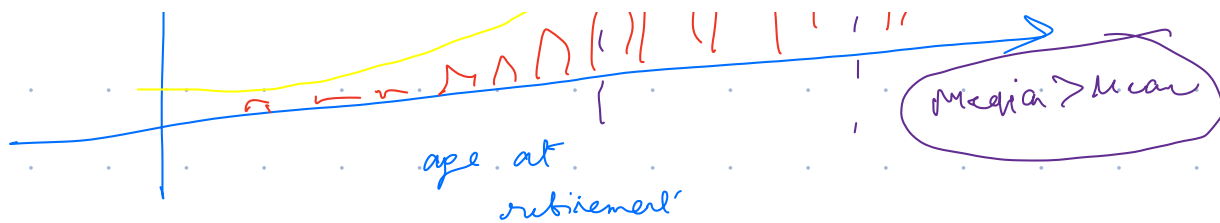
Discrete Variables : Use PMF

→ If you can count it it's likely discrete.
→ can be counted and have distinct values.

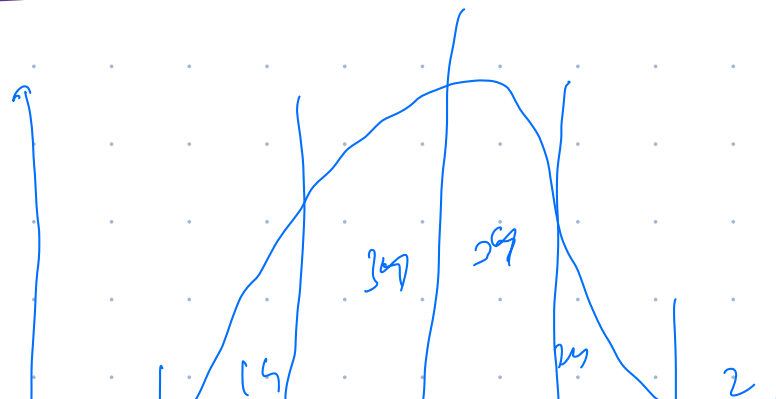
eg:- no. of students in a classroom, no. of cars
in a parking lot, no. of defective items in
a batch.

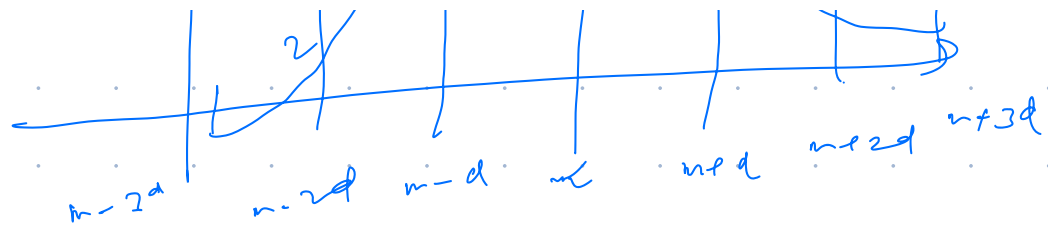
Skewness:





Normal Distribution;





Z-Score :

How many standard deviations away a data point is from the mean.

$$Z = \frac{x - \mu}{\sigma}$$

x - data point value
 μ → mean
 σ → SD

Standard Normal Distribution (SND) :

It's just a plot of the z-scores of the normal distribution

SND,

mean = 0

SD = 1
