Descriptive Statistics
Descriptive -> [Describe]
statistice that simply describes features from a collection of
information information
10 R 50 60
70 80 Speedomater 20 To Speedomater
100 +
"Infer" something
Inferential Statistics & Draws conclusion
24 L'adia
Descriptive statistics ->   Summary statistics
1 Summarises

Sample Salaries: 30L + 36L + 36L + 40L +40L

Salary Expectation: 35L?

Avg

Outlier

New Md 337.5

New Mean 

TO L

Median

Old Median 35 L

New Median 37.5 L

Sorted No mode 37.5 L 37.5

(8) -> Even -> 
$$\left(\frac{n}{2}\right)^{4n}$$
 term  $\left(\frac{n}{2}+1\right)^{4n}$  term

$$\rightarrow \left(\frac{2}{2}\right)^{4n} + \left(\frac{2}{2}+1\right)^{4n} + en$$

$$=) \frac{40 + 50}{2} = \frac{90}{2} = \frac{45}{2}$$

Mode

Aug. Age 
$$\rightarrow$$
 24
$$\Rightarrow 2^{\circ} + 2^$$

$$\frac{70 + 9}{4} = 21$$

$$70 + 9 = 96$$

$$96 - 70 = 26$$

$$4 = 96 - 70 = 26$$

$$4 = 3rd poson$$

$$\frac{21+26}{2} = \frac{24}{2}$$

$$\begin{array}{c} (100) \\$$

$$0 \quad n + y + m = 135^{-}$$
 $0 \quad n + y + m = 80$ 
 $m = 5^{-}5^{-}$ 

$$\left(\frac{30}{100}\times\right)\times\left(0\right) + \left(\frac{40}{100}\times\right)\times\left(1\right) + \left(\frac{10}{60}\times\right)\times\left(1\right) + \left(\frac{10}{60}\times\left(1\right) + \left(\frac{10}{60}$$

100

7 6.5

## Mean, Median, Mode, Weighted Arg.

Range - Describing the overall spread of the date.

$$\rightarrow 40 - 30 \rightarrow 0 \leftarrow$$

Inter Quartile Range

Percentile -> what fraction of values are lesser than a specific no:

$$IQR = Q3 - Q1$$
 $75^{4n}$  percentile  $25^{4n}$  percentile

## Cumulative Distribution Function (CDF)

$$\frac{P(\varepsilon=3)}{2} = \frac{1/6}{2} \times \frac{1}{2}$$

$$P\left(E \leq 3\right) = \left(\frac{1}{6} + \frac{1}{6} + \frac{1}{6}\right)$$

$$= \frac{3}{8} = \frac{1}{2}$$

$$CDF P(E \leq 1) = \boxed{\frac{1}{6}}$$

$$CDF P(E \leq 6) = \boxed{\frac{1}{6}}$$

$$P(\underline{E \leq 7}) = 1$$

$$\begin{cases}
E \leq N_1 \\
N_2
\end{cases} = \frac{y \cdot v \cdot dne Co}{1}$$

$$\begin{pmatrix}
M_3 \\
M_4
\end{pmatrix}$$

$$\begin{pmatrix}
M_4 \\
\vdots \\
N_{100}
\end{pmatrix}$$

$$\begin{vmatrix}
100 \\
100
\end{vmatrix}$$

CDF

Prob

Their

$$y = f(n)$$

Their

Percentile

 $25 \rightarrow 63.5$ 
 $CDF \rightarrow 63.5$ 
 $35$