Poisson:-

$$P(X=x) = \lambda^{x} e^{-\lambda}$$

$$x!$$
Say x_{1}, \dots, x_{n} one n such reduced because x_{1} and x_{2} and x_{3} and x_{4} and x_{5} and x_{1} and x_{2} and x_{3} and x_{4} and x_{5} an

Binomial: Xi = no of success in n briols, Let us record N observations each observation involving of trials (fixed) 7 2º = 90,13 $\Rightarrow L(x;0) = T p^{xe} (1-p) . T$ being p $\frac{1}{P} = \sum_{i=1}^{N} \frac{n-x_i}{1-P} = 0$

 $= \frac{\sum xi}{p} - \frac{N}{1-p} + \frac{\sum xi}{1-p} = 0$

 $=) \frac{N\eta}{1-p} = \frac{5\pi}{2CLP}$

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$$\frac{\partial L}{\partial \mu} = 0$$

$$\Rightarrow \left(\frac{1}{k}\right) \sum_{i=1}^{N} \frac{|x_i - \mu|}{|x_i - \mu|} = 0$$

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$$\Rightarrow \sum_{i=1}^{N} \frac{|x_i - \mu|}{|x_i -$$

 $=) \log L = \sum_{i=1}^{N} \log \left(\frac{1}{\sqrt{2\pi} \sigma} \right) - \frac{(x_i + x_i)^2}{2\sigma^2}$ Ochogi) = 0 $\sum_{i=1}^{N} x_i - \mu = 0$ $\frac{\partial}{\partial \sigma} \left(\log L \right) = 0$ $= \sum_{i=1}^{N} \frac{1}{\sigma^{2}} + \frac{(x_{i}^{2} - \mu)^{2}}{\sigma^{3}} = 0.$

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Le 2 x2 = meam of date

1 x2 - x)2

Variance = voviance of data