* Log Normal Distribution:

1 It is right skewed continues probability distribution, mraning it has long tail towards right.

V is normally distributed. at a random variable whose logarithm It is continous probability distribution

> Also known as "Galtons distribution"

. For any random variabe (X) can be · Similarly log normal distribution can transformed to log normal distribution by calculating exponent at the data be inverse transformed to original form / > Log normal Distribution (PDF) calculating its natural log.

points of log normal distribution.

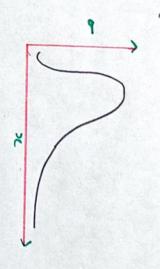
$$\Rightarrow PDF = \frac{1}{2\sqrt{4\sqrt{2\pi}}} e^{\left(-\frac{1}{2}\ln(x) - \frac{1}{2}\right)^2}$$

> y to x called inverse transformation

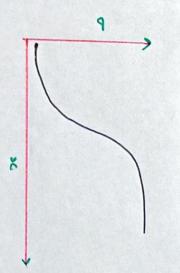
called transformation.

> Transformation: If the random variable Normal log distribution, then value of the oc on new distribution is y. or at any distribution convexted to

converted back to original distribution -> Inverse Transformation: If the random then value at y on new distribution



> Log Normal Distribution (CDF)



> For log normal distribution,