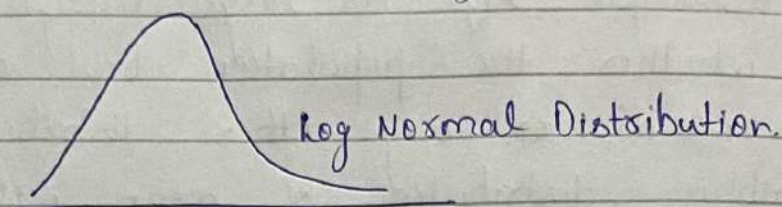
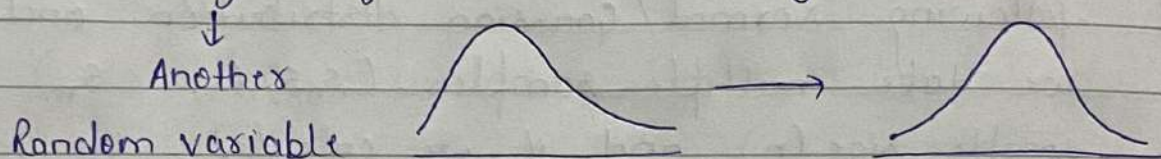


Log Normal Distribution

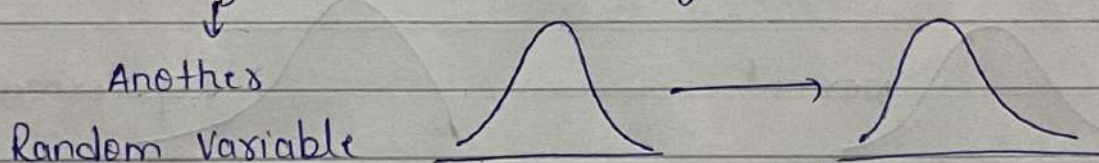
→ In probability theory, a log-normal distribution is a continuous probability distribution of a random variable whose logarithm is normally distributed



Suppose, $X \rightarrow$ random variable \rightarrow log-normally distributed.
then, $y = \log(x) \rightarrow$ normally distributed.



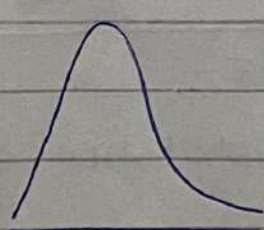
And, if $X \rightarrow$ Random variable \rightarrow normally distributed
then, $y = \exp(x) \rightarrow$ log-normally distributed.



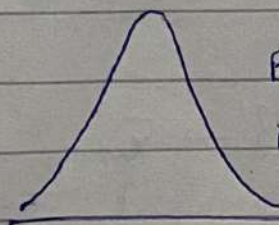
Eg: ① wealth Distribution

② comments on Youtube channel

→ Machine Learning Usecase : Simple Linear Regression



Logarithmic
Transformation
 $\xrightarrow{\log_e}$



Because, whenever our data is normally distributed, our model get trained efficiently