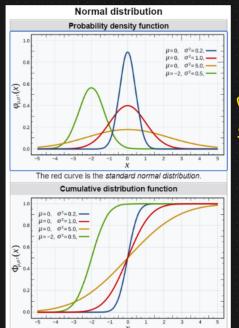
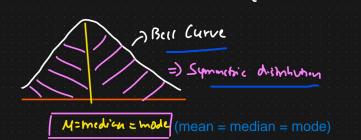
Normal/Gaussian Distribution

In probability theory and statistics, a normal distribution or Gaussian distribution is a type of continuous probability distribution for a real-valued random variable



J²97 Spread 17



Eg: Weights of shadonts in a class of Dockers Heights of Shadons in a class of Dockers TRIS DATASET -> Petal dengta, Sepal Lengta

The Dataset -> Petal dengta, Sepal Lengta

The Petal Width Sepal Width

Rusearchers

Moration N(u, v-2)

Payameters: MER = mean (R means Reak nos)

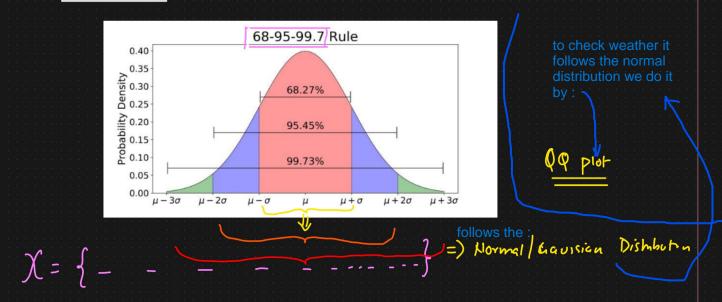
HER.

$$\frac{1}{\sqrt{2\pi}} = \frac{-y_2}{e} \left(\frac{x_i - u}{\tau}\right)^2$$

Mean of Normal Gaussian $M = \underbrace{\times}_{i=1}^{X_i}$

Variance $L^{2} = \sum_{i=1}^{N} \frac{(x_{i} - M)^{2}}{n}$ $= \sqrt{\text{Variance}}$

Emperical Rule of Normal / Gaussian Dishibution



Probability

probability $Pr\left(u-\sigma \leq \chi \leq u+\sigma\right) \approx 68\%$ $Pr\left(u-\lambda\sigma \leq x \leq u+\lambda\sigma\right) \approx 95\%$ $Pr\left(u-\lambda\sigma \leq x \leq u+\lambda\sigma\right) \approx 95\%$