M= median = mode

· N(U, 02)

MGR = mean or ERYO = Nazionce RER

pdf. - $\frac{1}{\sigma \sqrt{2\pi}} e^{-1/2} \left(\frac{x-\mu}{\sigma}\right)^2$

Mean = UVagionre = σ^2 , 5.0. = $\sqrt{\sigma^2} = \sigma$

Empirical Rule of Normal Distribution
P(U-04×68%

P (N+20 ≤x ≤N+20)≈95%

P(N-30 SK SM +30) = 99.7%

e.g. o Weight of the student in class

1 IRIS destaset

3 Uniform Distribution o ontinuous uniform Distribution - (pdf.) V(a,b) -co< a < b < 0 pdf = (-1 b-a $\frac{df}{f} = \begin{cases} for & x < a \\ \frac{x-a}{b-a} & for & x < b \end{cases}$ for RE[a,b] for n>b mean - 1 (0+b) medion: 1 (a+b) Vosionce = $\frac{1}{12}(b-a)^2$ e.g. The no. of condies sold at a shop is uniformly distributed with a maximum of 40 & min of 10. What is the proob of daily sales to fall beth 15 8 30.

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1) Discoete Uniform Distribution -

eg) Rolling a dice

$$pmf = \frac{1}{n}$$

$$p = b - a + 1$$

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