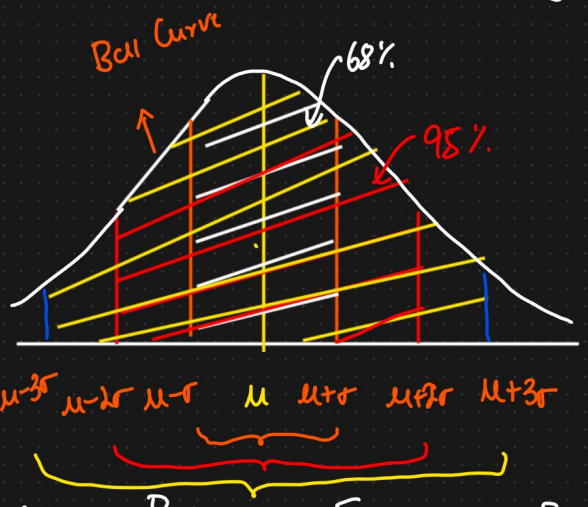
PW SKILLS

① Normal / Gaussian Distribution

$X = \{$ $\}$



⇒ Symmetric Distribution

68 95% 99.7

$X = \{ \ldots \}$

Empirical Rule [3 Sigma Rule]

68 - 95 - 99.7 %

Q-Q plot ⇒ Whether a Distribution is Gaussian / Normal Distribution

Probability

$$Pr(\mu-\sigma \leq X \leq \mu+\sigma) \approx 68\%$$

$$Pr(\mu-2\sigma \leq X \leq \mu+2\sigma) \approx 95\%$$

$$Pr(\mu-3\sigma \leq X \leq \mu+3\sigma) \approx 99.7\%$$

Eg: Weight, Height, IRIS DATASET