

This knowledge is applied to the general univariate normal density function

$$p(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2} \quad (1)$$

- Density is analytically simple
- The univariate case is considered for continuous density
- Most cases are considered Gaussian
- Such a distribution has 95% of its area within 2σ of its mean.