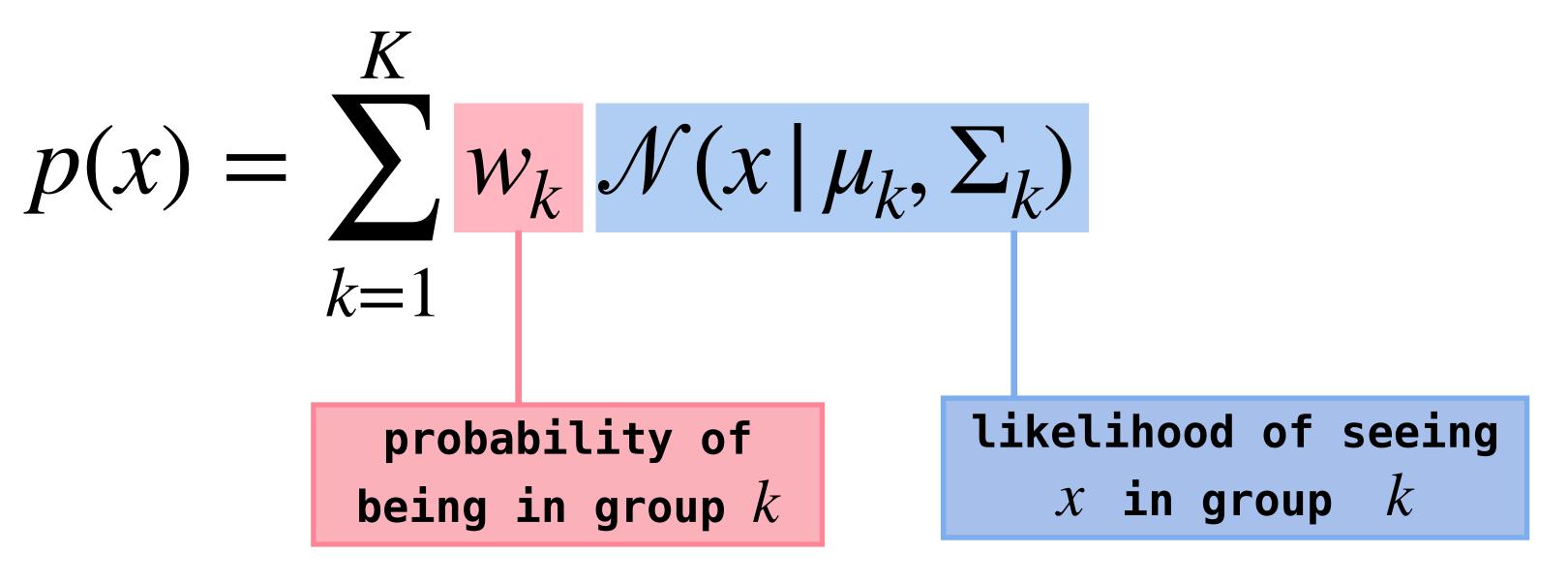
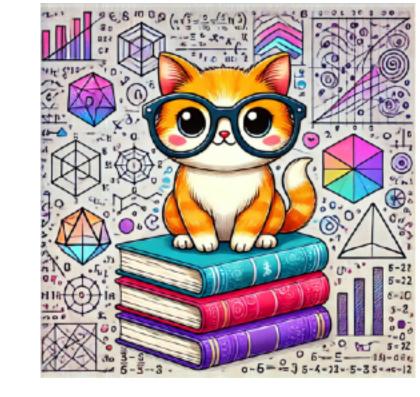
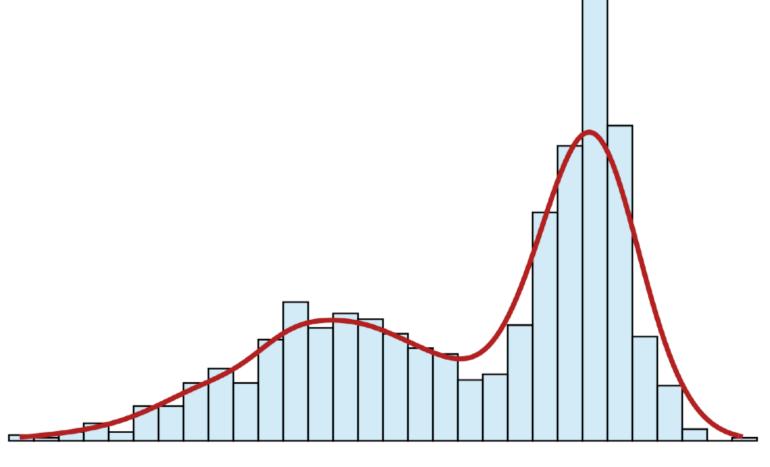
## Multimodal Distribution





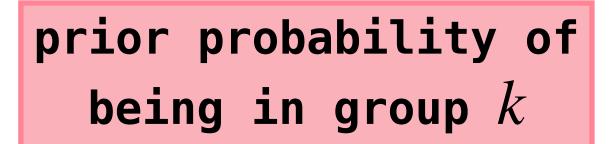


## Posterior Probabilities

posterior probability

of being in cluster k

$$p(x) = w_k \mathcal{N}(x | \mu_k, \Sigma_k)$$



likelihood of seeing x in group k

