Bayes Rule (2)

$$\text{Post}_{\text{prior}} = \text{Prior} \cdot \frac{\text{likelyhood}}{\text{evidence}}$$

$$PP = P\frac{l}{e}$$

A: Class
B: Data

$$P(A|B) = P(A) \cdot \frac{P(B|A)}{P(B)}$$

$$P(B) = P(B|A) \cdot P(A) + P(B|\neg A) \cdot P(\neg A)$$

↳ Normalization: $\sum_{i=0}^{n} P(A_i) \cdot P(B|B_i)$