

Bayes Statistics (Bayes Theorem)

Bayesian statistics is an approach to data analysis and parameter estimation based on Bayes' theorem.

Baye's Theorem

1) Independent Events

(2) Dependent Event

Pr(R and Y) = P(R) + Pr(Y/R) Probability
$$= \frac{2}{3} + \frac{6}{20}$$

$$Pr(B/A) = \frac{Pr(B) * Pr(A/B)}{Pr(A)}$$

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$$P_{r}(A/B) = \frac{P_{r}(A) * P_{r}(B/A)}{P_{r}(B)}$$

A, B = events

Pr(A), Pr(B) = Independent probability of A

and B

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Bayes theorem