Analysis of Titanic data

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Last update: September 9, 2021

$$p(A,B) = p(A|B)p(B)$$

$$p(B,A) = p(B|A)p(A)$$
(1)

and

$$p(A,B) = p(B,A) \tag{2}$$

meaning

$$p(A|B) = \frac{p(B|A)p(A)}{p(B)}$$
(3)

$$p(\text{survival}|\text{gender}) = \frac{p(\text{gender}|\text{survival})p(\text{survival})}{p(\text{gender})}$$
(4)

Parameter distributions





