

Bayes

Revising Beliefs

Initial Odds

Likelihood Ratio

Revised Odds Likelihood ratio x initial odds

Hypothesis Cause

Evidence Effect

Prior Probability P(Hypothesis)

Likelihood P(Evidence|Hypothesis)

Jointly $P(E,H) = P(E|H)P(H)$

Posterior Probability $P(\text{Hypothesis}|\text{Evidence})$
 $= P(E|H)P(H)/P(E)$
 $= P(E,H)/P(E)$

Prior Odds P(H):P(not H)

Posterior Odds $P(E|H)P(H):P(E|\text{not H})P(\text{not H})$

Bayesian Networks graph representation for random variables

Line Regression

Least Square procedure of finding the equation of the line which best fits a given set of paired data

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