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(Hypothesis|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|not H)P(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