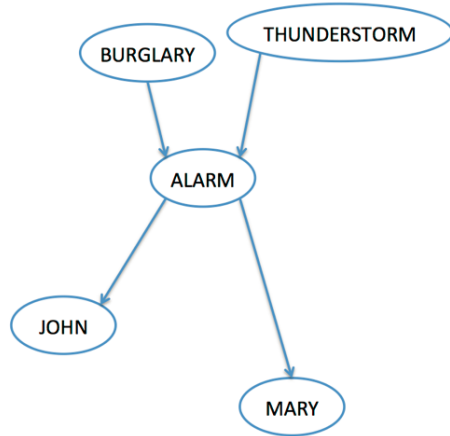


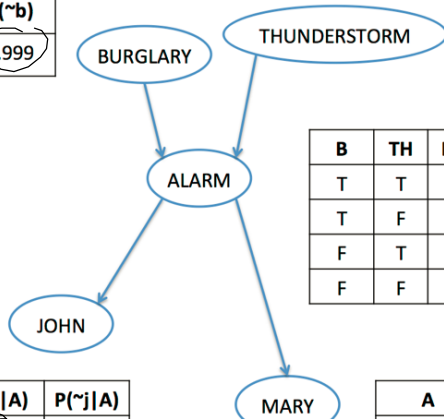
Bayes Net example

Friday, October 21, 2016 9:01 AM



P(b)	P(~b)
0.001	0.999

P(th)	P(~th)
0.002	0.998



B	TH	P(a B,TH)	P(~a B,TH)
T	T	0.95	0.05
T	F	0.94	0.06
F	T	0.29	0.71
F	F	0.001	0.999

A	P(j A)	P(~j A)
T	0.05	0.95

A	P(m A)	P(~m A)
T	0.01	0.99

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Conditional Probability Table

$$\begin{aligned}
 P(j \wedge m \wedge a \wedge \neg b \wedge \neg th) &= \prod_i P(x_i | \text{PARENTS}(x_i)) \\
 &= P(j|a) P(m|a) P(a|\neg b, \neg th) P(\neg b) P(\neg th) \\
 &= 0.9 \times 0.7 \times 0.001 \times 0.999 \times 0.998 \\
 &= 0.00062
 \end{aligned}$$

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