

appendix

Daniel Saggau

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Table 1: Pearls Hierachy of Causation (2009)

Method	Action	Example	Methods
Association $P(a b)$	Co-occurrence	What happened. . .	(Un-)Supervised ML, BN, Reg.
Intervention $P(a do(b), c)$	Do-manipulation	What happens if . . .	CBN,MDP,RL
Counterfactual $P(a_b a', b')$	Hypotheticals	What would have happened if. . .	SCM